PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 01

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	30-06-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011 & DGMS
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	6 nos; Aluminium Passivative
		LACES	Laces in Black & Red ;90 cm round Synthetic Laces with Breaking Strength 55-60 kg.
		WEIGHT	1.1Kg/Pair (Size – 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Black Leather in Apollo Print.
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 36 N
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Soft Netlon Black inner lining With Foam Backing
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 $mg/cm^2/h$.

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8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black + 5 mm EVA
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Dual Density Polyurethane
		COLOUR	Grey Colour Outsole And Black Colour Midsole
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Interlayer Bond Strength
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats.
11		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms

		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.
		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 02

DOC. NO.	QF/RD/05
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DATE	30-06-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	6 nos; Aluminium Passivative
		LACES	Laces in Black & Grey ;90 cm round Synthetic Laces with Breaking Strength 55-60 kg.
		WEIGHT	1.1Kg/Pair (Size – 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Black Leather in Apollo Print.
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 36 N
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Cambrell Grey inner lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 $mg/cm^2/h$.

8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats.
11		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.

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		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

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Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
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Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 04

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CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	DESIGN	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		WEIGHT	1.1Kg/Pair (Size – 8)
2	TOE PROTECTION	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.
		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE OF TOE CAPS	Exhibits less than 2.5 mm square area of corrosion under test conditions.
4	LEATHER UPPER	CONSTRUCTION	Made from Buff Black Leather in Apollo Print.

		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 N/mm$^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 mg/cm^2/h
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	TONGUE	TEAR STRENGTH	Above 36 N
6	VAMP LINING	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm^2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	SHOE LINING	CONSTRUCTION	Soft Netlon Black inner lining with Foam Backing
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
8	INSOLE	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	35 %. 40 %.

		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	INSOCK	MATERIAL & COLOUR	Soft Netlon Black Moulded on EVA
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	OUTSOLE	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black in Colour
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of sole tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats.
11	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
12	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
13	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region

14	HEAT INSULATION OF SOLE COMPLEX		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
15	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
16	HOT CONTACT (PU SOLE)		No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

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Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 05

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DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Black 6 ply
		EYELET	6 nos; Aluminium Passivative
		LACES	90 CM Round Nylon Laces with Breaking Strength 55-60 kg.
		WEIGHT	Approx. 1 kg/Pair for Size – 8.
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Apollo Black Leather.
		THICKNESS	2.00 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		WATER PENETRATION	NA
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	NA
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Soft Cambrel Grey inner lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 $mg/cm^2/h$.

8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black + 5 mm EVA
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 6 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	NA
		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.

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11	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
12	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
13	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
14	HEAT INSULATION OF SOLE COMPLEX		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
15	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
16	HOT CONTACT (PU SOLE)		No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

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Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : **Safety Shoe**
REF. NO. : **FS07BL(SWSAPN)**

REVISION	00
DATE	07/01/2015

DOC. NO.	03.05
ISSUE	01

Protection Class:
IS 15298:2011 (Part-2)
EN ISO 20345:2011 S1, P, CI, SRC

SL. No.	CLAUSE	DESCRIPTION	SPECIFICATION
1	**Design**	**Construction**	Specially Injection Moulded Construction for enhanced strength.
		Seat Region	Closed
		Height of Upper	Less than 113 mm.
		Thread	Nylon
		D-Ring	16 No/Pair Aluminum
		Laces	Black-Grey Synthetic, 90 cm Flat, with breaking strength 55-60 kg
2	**Toe Protection**	**General**	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		Construction	Made from high carbon steel and heat treated.
		Internal Length of Toe Cap	Above 39 mm.
		Impact Resistance	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is above 14.0 mm.
		Compression Resistance	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is above 14.0 mm
		Corrosion Resistance of Toe Caps	Exhibits less than 2.5 mm square area of corrosion under test conditions.

TECHNICAL DATA SHEET

3	**Leather Upper**	**Construction**	Made from Buff Black Barton Leather.
		Thickness	1.8 mm-2.20 mm ± 0.2 mm
		Tear Strength	Above 120 N.
		Tensile Strength	Above 15 N/mm$^{2.}$
		Water Vapour Permeability	Above 0.8 mg/cm^2/h
		Water Vapour coefficient	Above 20.0 mg/ cm^2
		pH Value	Above 3.5
		Chrome VI Content	No harmful chrome content detected
4	**Tongue**	**Tear Strength**	Above 18 N.
5	**Vamp Lining**	**Construction**	Non-Woven Fabric
		Tear Strength	Above 15 N.
		Martindale Abrasion Resistance	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		Water Vapour Permeability	Above 2.0 mg/cm^2/h.
		Water Vapour coefficient	Above 30 mg/cm^2
6	**Shoe Lining**	**Construction**	Spacer Yellow inner lining
		Tear Strength	Above 15 N.
		Martindale Abrasion Resistance	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		Water Vapour Permeability	Above 2.0 mg/cm^2/h.
		Water Vapour coefficient	Above 30 mg/cm^2

7	**Insole**	**Construction**	Insole is incorporated in such a way that it can not be removed.
		Thickness	Above 2.0 mm.
		Water Absorption And Desorption	Above 70 mg/cm^2 Above 80%
		Abrasion Resistance	No damage to the insole when exposed to 400 cycles.
8	**Insock**	**Material & Colour**	Soft Netlon Black
		Thickness	Above 2 mm
		Martindale Abrasion Resistance	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
9	**Outsole**	**Construction**	Single Density Polyurethane
		Colour	Black
		Thickness	Above 6 mm.
		Tear Strength	More than 5 kN/m.
		Abrasion Resistance	Volume loss is less than 250 mm^3.
		Flexing Resistance (30,000 cycles)	Cut growth is below 4 mm.
		Hydrolysis (150,000 cycles)	Cut growth is below 6 mm.
		Resistance to Fuel Oil	Below 12%.
		Cleated Outsole	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats.

10	**Antistatic Property**		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
11	**Energy Absorption of Seat Region**		Above 20 joules.
12	**Anti Slip Property**		Co-efficient of friction is more than 0.32
13	**Heat insulation of sole complex**		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
14	**Cold insulation of sole complex**		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
15	**Hot contact (PU sole)**		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.
16	**Weight**		Approx. 950 gm/Pair for Size 8.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
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Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

PRODUCT : LADIES SAFETY SHOE
REF. NO. : FS 100

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CONFORMING TO EN 20345:2011
& IS: 15298:2011
PROTECTION LEVEL: S1 P

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	10 nos.
		LACES	Black Round Laces
		WEIGHT	900 gms /Pair (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from Fiber/ Composite toe
		INTERNAL LENGTH OF TOE CAP	Above 39 mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Waxy Black Leather
		THICKNESS	1.8mm-2.20mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 N/$mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 mg/cm^2/h
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	NA
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm^2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	**SHOE LINING**	CONSTRUCTION	Pink Spacer Lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.

		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Pink Moulded Insock
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles.
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with cleats.
		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.
		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.

		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : LADIES SAFETY SHOE
REF. NO. : FS 101

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011
PROTECTION LEVEL: S1

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Black 6 ply
		EYELET	NA
		LACES	NA; Velcro fitment
		WEIGHT	900 gms /Pair (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from High Carbon Steel
		INTERNAL LENGTH OF TOE CAP	Above 39 mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 Sq. mm area of corrosion under test conditions.
2	**SOLE PROTECTION (Penetration Resistance)**	GENERAL	The penetration resistant (steel plate 0.8 mm thick) insert shall be of such that the maximum distance between the line represented by the feather edge of the last and edge of the insert is 6.5 mm. In the heel region the maximum distance between the line represented by the feather edge of the last and the insert shall be 17 mm.
		CONSTRUCTION	Made from High Carbon Steel.
		PENETRATION RESISTANCE	Steel Nail should not penetrate at minimum force of 1100 N
		CORROSION RESISTANCE	Exhibits no more than five areas of corrosion, none of which exceed 2.5 Sq.mm in area.
		FLEX RESISTANCE OF PENETRATION RESISTANCE INSERTS	No Sign of cracking after 1,00,000 flex.
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Black Leather
		THICKNESS	2.00 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	NA
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles

		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm^2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	**SHOE LINING**	CONSTRUCTION	Soft Netlon Black inner lining With Foam Backing
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black + 5 mm EVA
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles.
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 6 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.

		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	NA
		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.
		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.
		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 21

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1; CATEGORY- Design B

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	8 D Ring
		LACES	Laces in Black & Red; Synthetic, 110 cm Flat, with breaking strength 55-60 kg.
		WEIGHT	1.1 kg/Pair for Size-8
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Black Leather in Apollo Print.
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 18 N.
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Soft Netlon Black inner lining With Foam Backing
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it

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			cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Dual Density Polyurethane
		COLOUR	Grey Colour Outsole And Black Colour Midsole
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/m.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of sole tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats
11	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms

12	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
13	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
14	HEAT INSULATION OF SOLE COMPLEX		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
15	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
16	HOT CONTACT (PU SOLE)		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 22

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1; CATEGORY- Design B

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	6 No. Aluminum Passivative With Camel Hook; 2 Plastic hook closed with rivet & with Quick Release System
		LACES	Laces in Black & Grey ; Synthetic, 110 cm Flat, with breaking strength 55-60 kg.
		WEIGHT	1.1 kg/Pair for Size-8
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Black Leather in Barton Print.
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 36 N.
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Drylex Grey inner lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it

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			cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Netlon Black
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Dual Density Polyurethane
		COLOUR	Grey Colour Outsole And Black Colour Midsole
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/m.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of sole tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats
11	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms

12	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
13	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
14	HEAT INSULATION OF SOLE COMPLEX		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
15	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
16	HOT CONTACT (PU SOLE)		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : GRIPP SERIES SAFETY SHOE
REF. NO. : FS 51

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S2; CATEGORY- Design C

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Minimum 178 mm
		THREAD	Nylon 6 Ply Brown
		EYELET	NA
		LACES	NA
		WEIGHT	1500 gm/Pair for Size-8
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

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		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Waxy Brown Leather.
		THICKNESS	2.00 mm ± 0.2 mm.
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		WATER PENETRATION	Water absorption shall be no higher than 30% 60 min. Water penetration shall not occur during this period, not exceed 2 g after a further 30 min.
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	NA
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	NA
		TEAR STRENGTH	NA
		MARTINDALE ABRASION RESISTANCE	NA
		WATER VAPOUR PERMEABILITY	NA
		WATER VAPOUR CO-EFFICIENCY	NA
8	**INSOLE**	CONSTRUCTION	Insole (Nonwoven Antistatic Material) is incorporated in such a way that it can't be

			removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	EVA Moulded with arch support covered by Netlon Lining in Black Colour
		THICKNESS	Above 2 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Dual Density Polyurethane
		COLOUR	Outsole : Grey TPU And Midsole : Black PU
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 8 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of sole tearing
		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.

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11	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
12	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
13	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.40 for heel region and forepart region.
14	HEAT INSULATION OF SOLE COMPLEX		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
15	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
16	HOT CONTACT (PU SOLE)		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : PREMIUM SAFETY SHOE
REF. NO. : FS 61

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	30-06-2014

CONFORMING TO EN 20345:2011,
IS: 15298:2011 & DGMS
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	6 Nos. Aluminum Passivative
		LACES	Synthetic, 90 cm round, with breaking strength 55-60 kg
		WEIGHT	1.05 Kg/Pair (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Crazy Horse Tan Leather
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
4	**TONGUE**	TEAR STRENGTH	Above 36 N
5	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
6	**SHOE LINING**	CONSTRUCTION	Special breathable drylex
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.

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		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
7	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
8	**INSOCK**	MATERIAL & COLOUR	Drylex Beige Moulded on EVA
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
9	**OUTSOLE**	CONSTRUCTION	Double Density Sole TPU/PU
		COLOUR	Thermoplastic Polyurethane Black Outsole And Beige Polyurethane Midsole
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Change in Volume is below 12%

		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats
10	**ANTISTATIC PROPERTY**		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
11	**ENERGY ABSORPTION OF SEAT REGION**		Above 20 joules.
12	**ANTI SLIP PROPERTY**		Co-efficient of friction is more than 0.40 for heel region and forepart region.
13	**HEAT INSULATION OF SOLE COMPLEX**		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
14	**COLD INSULATION OF SOLE COMPLEX**		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
15	**HOT CONTACT (PU SOLE)**		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : PREMIUM SAFETY SHOE
REF. NO. : FS 62

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	30-06-2014

CONFORMING TO EN 20345:2011,
IS: 15298:2011
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	8 Nos.
		LACES	Synthetic, 110 cm round, with breaking strength 55-60 kg.
		WEIGHT	1.15 Kg (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Crazy Black Leather
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.(For Leather)
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
4	**TONGUE**	TEAR STRENGTH	Above 18 N
5	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
6	**SHOE LINING**	CONSTRUCTION	Drylex Grey inner lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.

		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
8	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black on Moulded EVA
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
9	**OUTSOLE**	CONSTRUCTION	Double Density Sole TPU/PU
		COLOUR	Thermoplastic Polyurethane Grey Outsole And Black Polyurethane Midsole.
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%

		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats
10	**ANTISTATIC PROPERTY**		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
11	**ENERGY ABSORPTION OF SEAT REGION**		Above 20 joules.
12	**ANTI SLIP PROPERTY**		Co-efficient of friction is more than 0.40 for heel region and forepart region.
13	**HEAT INSULATION OF SOLE COMPLEX**		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
14	**COLD INSULATION OF SOLE COMPLEX**		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
15	**HOT CONTACT (PU SOLE)**		No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : PREMIUM SAFETY SHOE
REF. NO. : FS 63

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	30-06-2014

CONFORMING TO EN 20345:2011,
IS: 15298:2011
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	8 Nos; Plastic hook closed with rivet
		LACES	Synthetic, 110 cm round, with breaking strength 55-60 kg.
		WEIGHT	1.15 Kg (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Crazy Black + Cordura Black Leather.
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.(For Leather)
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
4	**TONGUE**	TEAR STRENGTH	Above 36 N
5	**VAMP LINING**	CONSTRUCTION	Soft Fleece Lining
		TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
6	**SHOE LINING**	CONSTRUCTION	Spacer Orange inner lining.
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.

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		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
8	**INSOCK**	MATERIAL & COLOUR	Soft Netlon Black on Moulded EVA
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
9	**OUTSOLE**	CONSTRUCTION	Double Density Sole TPU/PU
		COLOUR	Thermoplastic Polyurethane Grey Outsole And Black Polyurethane Midsole.
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%

		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats
10	**ANTISTATIC PROPERTY**		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
11	**ENERGY ABSORPTION OF SEAT REGION**		Above 20 joules.
12	**ANTI SLIP PROPERTY**		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
13	**HEAT INSULATION OF SOLE COMPLEX**		Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
14	**COLD INSULATION OF SOLE COMPLEX**		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
15	**HOT CONTACT (PU SOLE)**		No damage to PU sole when exposed to a temperature of 150^0 C

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SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : PREMIUM SAFETY SHOE
REF. NO. : FS 64

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	30-06-2014

CONFORMING TO EN 20345:2011,
IS: 15298:2011
PROTECTION LEVEL: S1; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon
		EYELET	D Rings 8 Nos.
		LACES	Synthetic, 100 cm Flat, with breaking strength 55-60 kg.
		WEIGHT	1.1 Kg (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high carbon steel and heat treated.
		INTERNAL LENGTH OF TOE CAP	Above 39mm
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
3	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Grey Suede Leather
		THICKNESS	1.8 mm-2.20 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm^2
		pH VALUE	Above 3.5
		CHROME VI CONTENT	No harmful chrome content detected
4	**TONGUE**	TEAR STRENGTH	Above 36 N
		TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
6	**SHOE LINING**	CONSTRUCTION	Spacer Grey inner lining with soft foam backer
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY WATER VAPOUR CO-EFFICIENCY	Above 2.0 $mg/cm^2/h$. Above 30 $mg/cm^2/h$.

7	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
8	**INSOCK**	MATERIAL & COLOUR	Soft Grey Drylex on Moulded EVA
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
9	**OUTSOLE**	CONSTRUCTION	Double Density Sole TPU/PU
		COLOUR	Thermoplastic Polyurethane Grey Outsole And Black Polyurethane Midsole.
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 5 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats

10	**ANTISTATIC PROPERTY**		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
11	**ENERGY ABSORPTION OF SEAT REGION**		Above 20 joules.
12	**ANTI SLIP PROPERTY**		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
13	**HEAT INSULATION OF SOLE COMPLEX**		Below 22^{o} C. (The insulation cannot be damaged without damaging the footwear)
14	**COLD INSULATION OF SOLE COMPLEX**		Below 10^{o} C. (The insulation cannot be damaged without damaging the footwear)
15	**HOT CONTACT (PU SOLE)**		No damage to PU sole when exposed to a temperature of 150^{o} C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

TECHNICAL DATA SHEET

PRODUCT : PREMIUM SAFETY SHOE
REF. NO. : FS 65

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011
PROTECTION LEVEL: S1; CATEGORY- Design B

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Orange 6 ply
		EYELET	Fancy Nylon Tape
		LACES	Synthetic, 110 cm round with Breaking Strength 55-60 kg.
		WEIGHT	Approx. 1.30 Kg /Pair (Size 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel
		INTERNAL LENGTH OF TOE CAP	Above 39mm

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		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is Above 14.0 mm.
		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		CORROSION RESISTANCE	Exhibits less than 2.5 mm square area of corrosion under test conditions.
2	**SOLE PROTECTION (Penetration Resistance)**	GENERAL	The penetration resistant (steel plate 0.8 mm thick) insert shall be such that the maximum distance between the line represented by the feather edge of the last and edge of the insert is 6.5 mm. In the heel region the maximum distance between the line represented by the feather edge of the last and the insert shall be 17 mm.
		CONSTRUCTION	Made from High Carbon Steel
		PENETRATION RESISTANCE	Steel Nail should not penetrate at minimum force 1100 N
		CORROSION RESISTANCE	Exhibits no more than five areas of corrosion, none of which exceed 2.5 sq.mm in area.
		FLEX RESISTANCE OF PENETRATION RESISTANCE INSERTS	No Sign of cracking after 1,00,000 flex
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Crazy Horse Dark Brown + Cordura Brown Insert
		THICKNESS	2.00 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.

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		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 36 N
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm^2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 30 mg/cm^2/h.
7	**SHOE LINING**	CONSTRUCTION	Soft Drylex Orange
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
8	**INSOLE**	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
		COLOUR	Moulded Black
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
9	**INSOCK**	MATERIAL & COLOUR	Molded Black

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		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Dual Density Polyurethane
		COLOUR	Mid Sole: Grey PU and Out Sole : Black TPU
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 8 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 150 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.
		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.

TECHNICAL DATA SHEET

		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
Registered Office: Office No. 315/316, 3rd floor, City Space, Sr.No.198/1A,
Pune Nagar Road, Pune 411014, Maharashtra
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Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com **Web:** www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : EXCUTIVE SAFETY SHOE
REF. NO. : FS 71

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011& DGMS
PROTECTION LEVEL: S1 P; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon Black 6 ply
		EYELET	6 nos; Aluminium Passivative Black
		LACES	90 cm round Nylon Laces with Breaking Strength 55-60 kg.
		WEIGHT	1.05 Kg/Pair (Size – 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from Fiber/ Composite toe
		INTERNAL LENGTH OF TOE CAP	Above 39 mm
		IMPACT RESISTANCE	When tested at an impact energy of 100 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

2	**SOLE PROTECTION (Penetration Resistance)**	COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		GENERAL	The Penetration Resistant Fabric Insole (3.8 mm thick) is stitched with upper as Insole.
		CONSTRUCTION	3.8 mm Thick Anti Perforation Materials
		PENETRATION RESISTANCE	Steel Nail should not penetrate at minimum force1100 N
		CORROSION RESISTANCE	NA
		FLEX RESISTANCE OF PENETRATION RESISTANCE INSERTS	NA
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Waxy Black Leather
		THICKNESS	2.00 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	Above 36 N
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Grey White ZIG ZAG Lining

		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 $mg/cm^2/h$.
8	**INSOLE**	CONSTRUCTION	Insole (Anti Perforation Material) is incorporated in such a way that it cannot be removed.
		THICKNESS	3.8 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Molded Black
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 8 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.

		INTERLAYER BOND STRENGTH	NA
		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.
		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.
		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to TPU sole when exposed to a temperature of 150^0 C for 1 minute.

SUCCESS UDYOG PVT. LTD.
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Pune Nagar Road, Pune 411014, Maharashtra
Godown : Jadhav warehousing, Gat no. 1338/1, Priyankanagari, Wagholi, Pune – 411207
Off. Tel: 020-40188288/216/244/221-228, **Cell**-9371919702/9370223873 Fax: 020-40188227/299
Email: sales@successudyog.com Web: www.successudyog.com

TECHNICAL DATA SHEET

PRODUCT : EXCUTIVE SAFETY SHOE
REF. NO. : FS 72

DOC. NO.	QF/RD/05
ISSUE	01
REVISION	00
DATE	28-03-2014

CONFORMING TO EN 20345:2011
& IS: 15298:2011
PROTECTION LEVEL: S1 P; CATEGORY- Design A

S.NO	CLAUSE	DESCRIPTION	SPECIFICATION
1	**DESIGN**	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Nylon Black 6 ply
		EYELET	NA
		LACES	NA
		WEIGHT	1.1Kg/Pair (Size – 8)
2	**TOE PROTECTION**	GENERAL	Toe-Caps are incorporated in such a way that they cannot be removed. Footwear is lined in the Toe Section. The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from Fiber/ Composite toe
		INTERNAL LENGTH OF TOE CAP	Above 39 mm
		IMPACT RESISTANCE	When tested at an impact energy of 100 Joules, the clearance under the toe caps at impact is Above 14.0 mm.

2	**SOLE PROTECTION (Penetration Resistance)**	COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is Above 14.0 mm
		GENERAL	The Penetration Resistant Fabric Insole (3.8 mm thick) is stitched with upper as Insole.
		CONSTRUCTION	3.8 mm Thick Anti Perforation Material
		PENETRATION RESISTANCE	Steel Nail should not penetrate at minimum force of 1100 N
		CORROSION RESISTANCE	NA
		FLEX RESISTANCE OF PENETRATION RESISTANCE INSERTS	NA
4	**LEATHER UPPER**	CONSTRUCTION	Made from Buff Waxy Black Leather
		THICKNESS	2.00 mm ± 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSLE STRENGTH	Above 15 $N/mm^{2.}$
		WATER VAPOUR PERMEABILITY	Above 0.8 $mg/cm^2/h$
		WATER VAPOUR CO-EFFICIENCY	Above 20.0 mg/cm sq.
		CHROME VI CONTENT	No harmful chrome content detected
5	**TONGUE**	TEAR STRENGTH	NA
6	**VAMP LINING**	TEAR STRENGTH	Above 15 N
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 51,200 dry cycles, and 25,600 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 $mg/cm^2/h$.
		WATER VAPOUR CO-EFFICIENCY	Above 30 $mg/cm^2/h$.
7	**SHOE LINING**	CONSTRUCTION	Grey White ZIG ZAG Lining
		TEAR STRENGTH	Above 15 N.

TECHNICAL DATA SHEET

		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm2/h.
		WATER VAPOUR CO-EFFICIENCY	Above 20 mg/cm^2/h.
8	**INSOLE**	CONSTRUCTION	Insole (Anti Perforation Material) is incorporated in such a way that it can not be removed.
		THICKNESS	3.8 mm.
		WATER ABSORPTION & DESORPTION	Above 35 %. Above 40 %.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
9	**INSOCK**	MATERIAL & COLOUR	Soft Molded Black
		THICKNESS	Above 2 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
10	**OUTSOLE**	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 6 mm
		TEAR STRENGTH	More than 8 kN/mm.
		ABRASION RESISTANCE	Volume loss is below 250 mm^3
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	Above 4 N/mm & 3N/mm in case of sole tearing

		UPPER OUTSOLE BOND STRENGTH	Above 4 N/mm & 3N/mm in case of Leather tearing
		RESISTANCE TO FUEL OIL	Below 12%.
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats.
		ANTISTATIC PROPERTY	After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms
		ENERGY ABSORPTION OF SEAT REGION	Above 20 joules.
		ANTI SLIP PROPERTY	Co-efficient of friction is more than 0.40 for heel region and forepart region.
		HEAT INSULATION OF SOLE COMPLEX	Below 22^0 C. (The insulation cannot be damaged without damaging the footwear)
		COLD INSULATION OF SOLE COMPLEX	Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
		HOT CONTACT (PU SOLE)	No damage to PU sole when exposed to a temperature of 150^0 C for 1 minute.

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