



SUPERIOR TECHNOLOGY | SUPERIOR PERFORMANCE



**WELDING ELECTRODES
STAINLESS STEEL WELDING WIRES
STAINLESS STEEL WIRES
WELDING AUXILIARIES
WELDING MACHINES**

Make Better

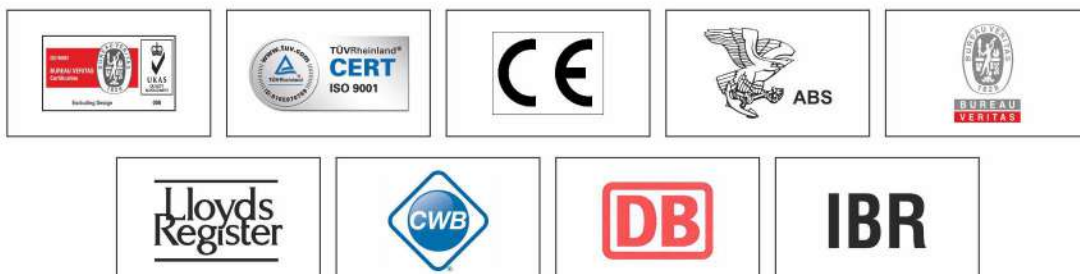
Stellaris Specialities India Ltd. (Division: StarBlaze India), an ISO Certified company, established in 2004 is the number 1 exporter of Welding Consumables from India and amongst the top 10 in India, manufacturing top quality Welding Electrodes, Welding Wires, Welding Machines, Industrial Coatings, MRO Aerosols, Bulk Cleaners and Degreasers.



Corporate Office

- Company with a vision of Make Better, ethical working and bringing products that are far superior in terms of performance and reliability
- Quality producer of stainless steel wires & welding consumables
- Manufacturer of stainless steel welding electrodes
- Integrated producer of 'World Class' stainless steel wires, welding wires & welding electrodes
- Entry into the field of welding machines, CFMS, flux cored wires and auxiliaries has brought us into a pole position
- Value - perfect balance of product & cost effective pricing
- Premium quality features

Wide Range of Approvals



Global Exports

- StarBlaze India today produces & exports a wide range of welding consumables, welding electrodes & wires, welding auxiliaries, as well as stainless steel non-welding wires, all around the globe
- Excellent "Value Proposition" through ideal balance of "World Class" quality, Superior performance features & cost effective pricing
- Consistent high quality through ISO Certified production facilities, technology transfer from world leaders & long-term commitment to customer service
- Availability of a full range of welding consumables (As per AWS), Maintenance & Repair, Stainless Steel welding wires, welding auxiliaries in single window
- Assured Reliability. Track record of quality leadership in India & now also internationally



World Class ISO Certified Manufacturing Facilities

**Electrode
Production**



**Stainless Steel
Wire Drawing Lines**



**Stainless Steel
MIG Wire Lines**



**Stainless Steel
TIG Wire**



**Stainless Steel
Fine Wire**



**Multi-Alloy
Spectro**



**Computerised
UTM**



**Mechanical
Lab**



A) Mild Steel & Low Alloys Welding Electrodes

- Full range. Multiple variants in E 6013 & E 7018 /E 7018-1, to suit different customer needs.
- Excellent re-strike & other welding characteristics.
- E7018/E7018-1: Ultra low diffusible hydrogen limits, <4 ml/100gms of weld deposit.
- Best in class mechanical properties.
- Best in class packaging for minimum transit flux damage/breakage.



Product Name	Classification	Mechanical Properties of Weld Metal (Typical)					Unique Feature
	AWS/SFA	Yield Strength N/mm2	Tensile Strength N/mm2	Elongation A5 (%)	Impact (J)	Welding Conditions	
STARBLAZE PRIME 6010	E 6010	400	470	28	>50 at -30°C	DC(+)	Excellent all position electrode. Best suitable for pipes and pipelines welding. Excellent mechanical properties in class.
STARBLAZE PRIME 6011	E 6011	≥ 400	≥ 470	≥ 28	>47 at -30°C	AC;DC+	Excellent all position electrode. Best suitable for pipes and pipelines welding. Excellent mechanical properties in class.
STARBLAZE PRIME 6013	E 6013	≥ 380	470-540	≥ 24	> 60 at 0°C	DC±	Very soft arc, minimum spatter, smooth fine rippled radiographic weld bead. Superior slag detachability. Excellent impact notch toughness at 0°C.
STARBLAZE PRIME 6013 VD	E 6013	>380	470-540	>24	>60 at 0°C	DC±	Rutile-Cellulosic exceptionally suitable for vertical down welding. Excellent gap bridging. Ultra smooth weldability.
STARBLAZE PRIME 6013 S	E 6013	≥ 380	470 - 540	≥ 24	≥70 at 0°C	DC±	Ultra smooth weldability. Especially suited for thick section fillet joints. Excellent arc Stability even at low currents.
STARBLAZE PRIME 7016	E 7016-H4	≥ 420	550 - 620	30	>90 at -30° C	DC+;AC	Excellent weldability. Self-peeling slag. Excellent mechanical properties.
STARBLAZE PRIME 7016-A1	E 7016-A1-H4	>420	510-640	≥ 24	>47 at -20°C	DC+;AC	Ultra smooth finely rippled weld bead. Less than 4.0 ml diffusible hydrogen. Excellent for C-0.50% Mo Steels.
STARBLAZE PRIME 7018*	E 7018-H4	450	550-620	28	>100 at -30° C	AC;DC+	Excellent weldability. Best in class mechanical properties. Less than 4.0 ml diffusible hydrogen level.
STARBLAZE PRIME 7018 S*	E 7018-1-H4	450	550-620	30	80 at -45°C	AC;DC+	Ultra smooth finely rippled weld bead. Less than 4.0 ml diffusible hydrogen level.
STARBLAZE PRIME 7018-A1	E 7018-A1-H4	>470	550 - 650	24	≥ 40 J at -30°C	AC;DC+	Excellent weldability. Best suited positional welding. Excellent creep resistant
STARBLAZE PRIME 8018-G	E 8018-G	≥ 500	560-680	28	≥ 60 at -50°C	AC;DC+	Excellent toughness and formability. Highly crack resistant joint welding.
STARBLAZE PRIME 8018-B2	E 8018-B2	≥ 460	600-680	≥ 20	≥ 47 at +20°C	DC+	Ultra smooth finely rippled bead. Best in class mechanical properties.
STARBLAZE PRIME 9018-B3	E 9018-B3	≥ 550	620-750	≥ 20	≥47 at +20°C	DC+	Excellent weldability and mechanical properties.
STARBLAZE PRIME 9018-G	E 9018-G	≥ 560	650-750	≥ 20	≥47 at -50°C	AC;DC+	Excellent weldability extra low hydrogen, Self-peeling slag, best in class mechanical properties.
STARBLAZE PRIME 9018-M	E 9018-M H4	540-620	620-720	≥ 26	>47J at -51°C	AC;DC+	Extra Low hydrogen. Tough and crack free welded joints. Excellent mechanical properties.
STARBLAZE PRIME 10018-D2	E 10018-D2-H4	630	700-850	22	> 60 at -50°C	AC;DC+	Smooth finely rippled weld bead. Excellent impact notch toughness at -50°C. Recommended for critical security welding applications.
STARBLAZE PRIME 10018-G	E 10018-G-H4	≥ 680	760-850	≥ 18	≥ 47 J at -60°C	AC;DC+	Superior weldability, concentrated arc, smooth weld bead, self-releasing slag.at -50°C
STARBLAZE PRIME 11018-G	E 11018-G-H4	≥ 720	≥ 780	≥ 17	≥ 47 J at -60°C	AC;DC+	Superior weldability, concentrated smooth arc, all positions, crack free joints.
STARBLAZE PRIME 11018-M	E 11018-M-H4	680 - 730	760-850	≥ 20	≥ 50 at -50°C	AC;DC+	Excellent weldability. Best in class. Mechanical properties.

*E7018 & 7018-1 also available in H4R category

B) Stainless Steel Welding Electrodes

- Perfect FULL LENGTH welding
- Self-releasing slag
- Low moisture absorption
- Perfect re-striking
- Best in class 7 layer vacuum packaging
- Wide range of grades suitable for most industrial applications



Product Name	Classification	Mechanical Properties of Weld Metal (Typical)					Unique Feature (All Vacuum Packed)
		Yield Strength N/mm2	Tensile Strength N/mm2	Elongation A5 (%)	Impact (J)	Welding Conditions	
STARBLAZE PRIME 307	E 307L 16	-	>550	>35	>75 at RT	AC;DC+	Austenitic structure, rutile type, excellent weldability. Excellent machinability.
STARBLAZE PRIME 308H	E 308H-16	-	600	37	>55 at RT	AC;DC+	Smooth weldability. Suitable for high. Temperature applications.
STARBLAZE PRIME 308L-15	E 308L-15	-	≥ 550	≥ 35	≥ 47 at - 196°C	DC+	Basic coated superior weld ability, self-peeling slag best suitable for pipe welding. Impact passes at- 196°C.
STARBLAZE PRIME 308L*	E 308L-16	-	610	40	70 at RT	AC;DC+	LMA type coating, superior weldability without spatter, self-peeling slag. Best in class mechanical properties.
STARBLAZE PRIME 309CB	E 309Cb-16	-	590	40	75 at RT	AC;DC+	Excellent resistance to chemical corrosion and heat. Weldability with spatter free arc, self-releasing slag. Excellent weldability, self-peeling slag.
STARBLAZE PRIME 309L*	E 309L-16	-	600	>35	80 at RT	AC;DC+	Excellent weldability, slag-peeling slag best in class mechanical properties. Best for joining dissimilar steels.
STARBLAZE PRIME 309LMO	E 309LMO-16	-	650	36	70 at RT	AC;DC+	Highly crack resistant. Soft fusion, nice aspect of the bead, slag lifts by it self
STARBLAZE PRIME 310	E 310-16	-	≥ 550	≥ 30	≥ 60 at RT	AC;DC+	Austenitic structure, rutile type, excellent weldability .
STARBLAZE PRIME 312*	E 312-16	≥ 500	≥ 800	≥ 20	≥ 70 at RT	AC;DC+	Superior weldability. Excellent crack, heat and shock resistant, highest tensile strength with elongation in class.
STARBLAZE PRIME 316L*	E 316L-16	-	590	40	80 at RT	AC;DC+	Superior weldability, finely rippled bead, self-peeling slag. Best in class corrosion resistant.
STARBLAZE PRIME 318-16	E 318-16	450	590	35	65 at +20°C	AC;DC+	Excellent intergranular corrosion resistant, good weldability, self-peeling slag.
STARBLAZE PRIME 347	E 347-16	-	590	40	80 at RT	AC;DC+	Soft fusion, without spatters, very easy slag removal, exceptional weld bead appearance, easy restriking.
STARBLAZE PRIME 347-15	E 347-15	≥ 450	≥ 590	≥ 35	≥ 47 at - 60°C	DC+	Basic coated controlled fluidity, superior weld ability, self-peeling slag, superior intergranular corrosion resistant.
STARBLAZE PRIME 385	E 385-16	≥ 370	≥ 570	≥ 35	≥ 90 at + 20°C	AC;DC+	Fully austenitic, highly corrosion resistant. Good weldability in all positions, except vertical down.
STARBLAZE PRIME 2209-16*	E 2209-16	≥ 500	≥ 720	≥ 25	≥ 50 at RT	AC;DC+	Corrosive resistant duplex-steels. Excellent resistant to inter granular corrosion, pitting and stress corrosion conditions
STARBLAZE PRIME 2594-16*	E 2594-16	≥ 650	≥ 800	≥ 20	≥ 50 at RT	AC;DC+	Super-duplex stainless steels. Excellent resistant to pitting and crevice corrosion. Excellent weldability, spatter free arc, very smooth bead appearance
STARBLAZE PRIME 410	E 410-15	≥ 250	≥ 520	≥ 22	-	AC;DC+	Basic heavy coated low hydrogen type. Excellent weldability.
STARBLAZE PRIME 410NiMo	E 410NiMo-15	≥ 600	≥ 760	≥ 15	-	DC+	Basic coated. Superior weldability. Excellent resistance to abrasion.

*-17 designation are also available.

C) Hard Facing, Cast Iron & Nickel Alloys



Product Name	Classification AWS/SFA	Mechanical Properties of Weld Metal (Typical)					Welding Conditions	Welding Features (All Vacuum Packed)
		Yield Strength N/mm2	Tensile Strength N/mm2	Elongation A5 (%)	Impact (J)			
STARBLAZE PRIME NiFe	E NiFe-C1	300-400	≥ 500	≥ 15	-		AC;DC+	Graphite basic coated. Ferro-Nickel alloy. Good bonding and flow of the weld metal. Good machinability.
STARBLAZE PRIME CI99	E Ni-CI	260-410	≥ 450	≥ 3	-		AC;DC+	Excellent machinability. Pure nickel Electrode. Smooth and intensive arc. Easy slag removal.
STARBLAZE PRIME NiCu7	E Ni-Cu-7	≥ 230	≥ 490	≥ 30	≥ 47 at -196°C		DC+	Universal Monel electrode for repairing, joining, problem solver. Weld metal corrosion resistant to seawater, salts and reducing acids.
STARBLAZE PRIME NiCrFe-2	E NiCr Fe-2	≥ 400	≥ 600	≥ 40	≥ 47 at -196°C		DC+	Excellent out of position welding. Excellent corrosion resistant even at elevated temperatures.
STARBLAZE PRIME NiCrFe-3	E NiCr Fe-3	≥ 420	≥ 580	≥ 30	≥ 47 at -196°C		DC+	Excellent out of position welding. Excellent corrosion resistant at normal and elevated temperatures.
STARBLAZE PRIME NiCr-Mo3	ENiCr Mo-3	>420	≥ 760	≥ 30	≥ 47 at -196°C		DC+	Superior weldability. Fully austenitic, excellent resistance against corrosive media.

D) Flux Cored Wire

E-71T1 Wire



- Specially designed for single or multiple pass welding
- An all position flux-cored wire
- Excellent wire feeding, low fumes
- Smooth arc transfer, Low spatter, Very easy slag removal
- High deposition rate, excellent bead appearance
- Vacuum – Packed, rust free

E) Stainless Steel Welding Wires

Stainless Steel MIG Wires

Size Range

0.60 mm to 1.20 mm (0.025" to 0.047")

Finish

Bright, Semi-Bright & Matte

Packaging

1kg, 5kg, 12.5kg & 15kg plastic & basket spools
100kg & 250kg Drum Pack

StarBlaze high quality stainless steel MIG welding wires in bright as well as in matte finish with specially designed cleaning operation to avoid welding contamination & trouble free feeding. StarBlaze MIG welding wire comes in plastic & in metal basket spool as per the different weight requirement by customers. The wires tensile strength, helix and cast diameter is engineered to precise tolerance to ensure perfect "Pay-Off". Also manufactures stainless steel MIG welding wires in bulk supplies, which comes with 100 to 250 Kgs (250 to 500 Lbs.) fiber/card board drums for robotic as well as for general applications. Our pail pack drums equipped with all required facilities for robotic uses & can be utilized on any wire-feeding unit without changing much expensive equipment's. Our pail pack drum also increases productivity by reducing down times as compared with small plastic spools. Cast & helix of our pail pack drums are engineered in such a manner that it reduces wastage of wires & increase life of liner tips.



Stainless Steel TIG Wires

Size Range

0.80 mm to 5.00 mm (0.030" to 0.196")

Finish

Bright

Length

1000mm (40") & 914 mm (36")

StarBlaze manufactures high quality stainless steel TIG welding wires in 36" & 1,000 mm cut lengths, with embossing on one or both sides above 1.2 mm wires as per customer's requirements. StarBlaze TIG welding wires are supplied in bright and clean finish to avoid all possible contamination. Plastic tube/ cardboard tube packaging of 5kg (10lbs) in master carton of 20kg (44lbs) further packed in wooden/cardboard box/Euro pallet



Stainless Steel Saw Wires

Size Range

1.60mm to 4.00mm (0.062" to 0.156")

Finish

Bright & Matte

Packaging

25 kg Paper Core & K415 basket spools

StarBlaze manufactures clean & layer wound wire for submerged arc welding from 1.60 mm (0.0625") to 5.00 mm (0.1875") in various grades in bright as well as in matte finish. The tensile strength, helix and cast diameter is engineered to precise tolerance: to ensure perfect "Pay-Off".

***For stainless steel wires, please follow Annexure 1 for Chemical Composition**



Stainless Steel Core Wires

Size Range

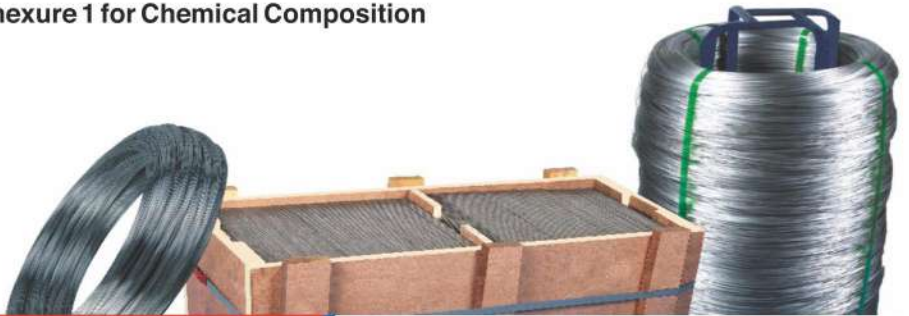
1.60mm to 5.00mm (0.062" to 0.196")

Packaging

Cut length of 350mm & coils

Finish

Bright & Matte



F) Stainless Steel Wire

Stainless Steel Fine Wires

Size Range

0.10mm to 0.70mm (0.004" to 0.317")

Finish

Bright

Temper

Annealed or spring hard (stress relieved - optional)

Packaging

On spools DIN 125, DIN160, DIN 200, DIN 250

Application

Braiding, Knitting, Weaving, Jewellery, Scrubber, Shorts, Brushes, Staples, Wire Rope Manufacturing, Fencing etc.



Stainless Steel Thick Wires

Size Range

0.70mm to 7.00mm (0.317" to 3.17")

Finish

Soap Drawn (Matte Finish)/Grease Drawn (Bright Finish)
Cleaned or with residual lubricant, Bright Drawn (EPQ) Quality.

Temper

Annealed or spring hard

Packaging

Coils on Hanger

Application

Air Bag, Balls, conveyor belts, Fasteners, Fencing, Filters, Hangers, Lashing, Nails, Kitchen Hose, Roofing Hooks, Screens, Staples, Wool, Wire Mesh, Wire Ropes, etc.



***For stainless steel wires, please follow Annexure 1 for Chemical Composition**

G) WELDING MACHINES

ARC Inverter Series



Salient features

- ▲ Protection against under voltage, over voltage and over current, it makes the machine safe & reliable.
- ▲ Wide range from 180 Volt to 260 Volt for single phase and 350 Volt to 480 Volt for three phase.
- ▲ VRD as standard features OCV reduced to 17V_{dc} lowest in the segment.
- ▲ Generator friendly.
- ▲ Suitable for acidic, basic and cellulosic electrodes.

Main Technical Parameters :	ARC - 200	ARC -220	ARC -270D	ARC -400	ARC -400 HD	ARC -500	ARC -600
Rates input Voltage (V)	AC 220±15%	Ac220±15%	AC 220 ± 15% 415*2P ± 15%	415*3P±15%	415*3P ± 15%	415*3P ± 15%	415*3P ± 15%
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated input capacity (KVA)	5.83	7.24	9.24	18.2	18.2	23.8	23.2
Rated input current (A)	26.5	33	42	25.3	25.3	33.1	32.3
Welding output voltage (V)	54	58	70V	71	71	74	75
Current adjusting range (A)	30-200	30-220	30-270	40-400A	40-400A	40-500A	45-600A
Efficiency (%)	85%	85%	85%	85%	85%	85%	87%
Insulation	F	F	F	H	F	F	H
Case protection degree	IP21	IP 21	IP21	IP 21	IP 21	IP 21	IP 21
Overall dimensions (mm)	204 x 87 x 146	295x 130x 235	345 x 153 x 285	457 x 203 x 330	482 x 241x 381	520x 267x 419	520x 267x 419
Weight (kg)	2	3.7	5.5	13	13.5	24.5	25
Suitable electrode rod (mm)	1.6/2.5	1.6/2.5/3.2	1.6/2.5/3.2/4.0	1.6/2.5/3.2/4.0	1.6/2.5/3.2/4.0	1.6/2.5/3.2/4.0	1.6/2.5/3.2/4.0
Warranty**	1	1	1	1	2	2	2

MIG/ MAG Inverter Series



Salient features

- ▲ Protection against under voltage, over voltage and over current, it makes the machine safe and reliable.
- ▲ Electronic choke adjustment for better arc control.
- ▲ Multi process GMAW, FCAW, MMAW & Lift TIG.
- ▲ Generator friendly.
- ▲ Suitable for Gasless welding.



Main Technical Parameters :	MIG 135E	MIG 250F	MIG 400	MIG 500	MIG 500 HD
Rates input Voltage (V)	230*1P ± 15%	415*3P ± 15%	415*3P ± 15%	415*3P ± 15%	415*3P ± 15%
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Rated input capacity ((KVA)	3.1	9.2	15.2	22.8	16
Rated input current (A)	13.4	12.8	21	32	22.2
Welding output voltage (V)	55	61	66	61	76
No load loss (W)	100	120	120	190	120
Current adjusting range (A)	32-120	40-250	60-400	60-500	62-500
Voltage adjusting range (V)	----	16-27	17-34	17-39	17-39
Efficiency (%)	85%	85%	85%	85%	85%
Insulation	F	F	H	F	H
Case protection degree	IP21	IP21	IP21	IP21	IP21S
Overall dimensions (mm)	280x156x180	466 x 212 x 371	508 x 244 x 423	526 x 272 x 468	550 x 280 x 545
Weight (kg)	3.1	16	24	30	36
Warranty**	1	2	2	2	2

TIG Inverter Series



Salient features

- Protection against under voltage, over voltage and over current, it makes the machine safe and reliable.
- Dual functions HF TIG and MMA.
- Adopt new techniques that maximize thermal dissipation with 4 separated heat sinks.
- Auto-Adaptive arc force and hot start current under MMA function.
- Pass the high voltage 3750V AC dielectric strength test safe for welders.
- Generator friendly.

Main Technical Parameters :	TIG 250	TIG 250P AC/DC	TIG 315P AC/DC	TIG 400
Rates input Voltage (V)	220*1P ± 15%	220*1P ± 15%	415*3P ± 15%	415*3P ± 15%
Frequency (Hz)	50/60	50/60	50/60	50/60
Rated input capacity ((KVA)	7.81	8.03	12.36	17.4
Rated input current (A)	35.5	36.5	17.2	24.3
Welding output voltage (V)	64	62	62	65
Current adjusting range (A)	10-250	10-250	12-300	10-400
Efficiency (%)	85%	85%	85%	85%
Insulation	F	F	F	F
Case protection degree	IP21S	IP21	IP21	IP21
Overall dimensions (mm)	402 x 160 x 300	476 x 340 x 402	609 x 332 x 622	508 x 244 x 423
Weight (kg)	7.5	18.5	36	25
Warranty**	1	2	2	2

*Water Cooled Torch & Water Cooler optional

Plasma Cutting Machine



Cut 100

(Plasma Cutting Machine)

Salient features

- The advanced IGBT inverter technology.
- Current and post flow time adjustable, enrich controlling ways of welding shape.
- Compressed air pressure display on the panel.
- Standard signal output socket for CNC on the back panel.
- Generator friendly.



Main Technical Parameters :	CUT 100
Rates input Voltage (V)	415*3P ± 15%
Frequency (Hz)	50/60
Rated input capacity ((KVA)	21.0
Rated input current (A)	15.0
Welding output Current (A)	20-100
Welding output voltage(V)	328
Efficiency (%)	85%
Power factor	>0.93
Insulation	H
Case protection degree	IP21
Overall dimensions (mm)	526 x 272 x 468
Weight (kg)	25.6
Warranty**	2

SAW Welding Machine

Main Technical Parameters :	SAW 1250HD
Rates input Voltage (V)	415*3P ± 15%
Frequency (Hz)	50/60
Rated input capacity ((KVA)	63.01
Rated input current (A)	82.6
Welding output voltage (V)	92
No load loss (W)	200
Current adjusting range (A)	250-1250
Voltage adjusting range (V)	20-44
Efficiency (%)	85%
Insulation	F
Case protection degree	IP23
Overall dimensions (mm)	825 x 451 x 1040
Weight (kg)	123.4
Warranty**	2

SAW 1250 HD

(SAW Welding Machines)

Salient features

- The advanced IGBT inverter technology.
- Generator friendly.
- 100% duty cycle at 1250A.
- Analog keys and rotary knobs for convenient operation.
- Intelligent energy-saving mode as the machine stop working for more than 5 minutes.
- Unique control circuit to balance two side's output current and voltage.
- Startup protection circuit in case of inrush current.



H) Welding Auxiliaries

- StarBlaze ANTI SPATTER (NF)** Weather resistant long lasting anti-spatter coating. Prevents spatter from adhering to weld beads, surrounding & welding tips during welding.
Key Features
 - Heavy duty-effective even on the most severe high amperage weld spattering, unlike normal anti spatter sprays.
 - Fully non-flammable formulation with a non-flammable CO₂, propelled for higher user safety as well as higher actual coverage (97% actives vs 65% max actives in hydrocarbon propelled aerosol sprays).**PACKING:** 400 Gms/CAN
- StarBlaze ANTI SPATTER (E)** Heavy-duty dry thin film Water based welder anti spatter coating. Designed to prevent spatter from adhering to weld beads, surrounding metal surfaces & welding tips during welding.
Key Features
 - Heavy duty-Effective even on the most severe high amperage weld spattering, unlike normal anti-spatter sprays.
 - Fully non-flammable water based formulation. Superior application and durability.
 - Keeps tips and nozzles clean. Prevents spatter build-up.**PACKING:** 350 ml/CAN
- StarBlaze SUPER PENETRANT & SUPER DEVELOPER** Will locate surface discontinuities or other indications on all non-porous materials (Metals, Plastics, and Ceramics):- Cracks, Seams, Porosity, Laps, Laminations, and Cold Shuts. Use to detect welding, casting & forging defects, cracks & leaks in new-components and fatigue cracks on in-service components
Key Features
 - Will detect wide spectrum of flaw sizes regardless of flaw orientation, up to 1 micron to 30 microns depth on standard Ni-Cr test panel.
 - Superior capillary action, Non-Toxic, Non-Corrosive Free from halides & sulfides
 - Conforms to MIL-1-25135, MIL STD 271, IS 3658-1981 "Code of practice for liquid penetrant flaw detection".**Packing:** 400 ml /CAN
- StarBlaze SUPER 40** Plastic safe, high di-electric strength cleaner, lubricant, moisture displacer, penetrant & corrosion inhibitor that loosens dirt, scale, rust Reopens jammed assemblies, cleans grease/grime, provides effective anti-rust and prevents electrical malfunctions caused by water penetration, humidity, condensation or corrosion.
Key Application Areas
 - Mechanical: Threaded assemblies, tools, molds, dies, electrical system precision machined components
 - Electrical: Motor, generators, electromechanical equipment's, communication systems, re-opening jammed parts & assemblies**Packing:** 400 ml /CAN, 200 ml/Can & 100 ml/Can.
- StarBlaze NOZZLE DIP GEL** Heavy duty proprietary polymer gel type formulation. Designed to prevent accumulation of weld spatter from adhering to the welding torch nozzle, both interior and exterior surfaces. Facilitates smooth welding and reduced downtime by avoiding spatter build-up and repeated cleaning of welding tips during the welding process.
Key Application Areas
 - Resistance welding tips, MIG and TIG torch nozzles.
 - Heavy duty: Effective even on the most severe weld spattering.
 - Non-drip formulation: Superior adhesion and durability of the gel ensures nozzle and tip remains clean during welding.
 - No adverse effect on type of welding. It is a non-toxic, non-fuming formulation.**Packing:** 300 Gms/Can
- StarBlaze 82CO₂ WONDER GEL** Stainless Steel Pickling Gel is a unique, fast action, non-fuming, pickling gel used to remove heat tint, weld discoloration, oxide scale and rust from all series of stainless steels. The corrosion resistance of stainless steel depends on the presence of an invisible protective chromium oxide surface. Operations or exposure to carbon can damage the passive protective layer. Such as welding, grinding
Key Features
 - User friendly-minimal fuming & skin irritation.
 - Fast Action
 - Easy to use. No mixing or measuring. Apply directly to surfaces to remove stubborn impurities. Superon Pickling Gel Cleans the toughest slag, weld scale and heat/black oxide color from stainless steel.
 - Cleans & restores the original corrosion resistant properties of the material.**PACKING:** 1kg/Can & 500 gm/Can

**Casting Industry, Fabrication Industry,
NDT Testing Electrical & Electronics,
Automobile Industry**



Annexure 1: Typical Chemical Composition

GRADE OFFERED											
CHEMICAL COMPOSITION											
Grade	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%N2	Others
Chemical Composition as per ASTM A580										-	-
302	0.120	2.000	1.000	0.030	0.045	17.0-19.0	8.0-10.0	-	-	-	-
304L	0.030	2.000	1.00	0.030	0.045	18.00-20.00	8.00-12.00	-	-	-	-
304	0.080	2.000	1.00	0.030	0.045	18.00-20.00	8.00-12.00	-	-	-	-
310	0.250	2.000	1.50	0.030	0.045	24.00-26.00	19.00-22.00	-	-	-	-
310S	0.080	2.000	1.50	0.030	0.045	24.00-26.00	19.00-22.00	-	-	-	-
314	0.250	2.000	1.50-3.00	0.030	0.045	23.00-26.00	19.00-22.00	-	-	-	-
316	0.080	2.000	1.00	0.030	0.045	16.50-18.00	10.00-14.00	-	2.00-3.00	-	-
316L	0.030	2.000	1.00	0.030	0.045	16.50-18.00	10.00-14.00	-	2.00-3.00	-	-
316Ti	0.080	2.000	1.00	0.030	0.045	16.50-18.00	10.00-14.00	-	2.00-3.00	-	% Ti-5 x C% min
321	0.080	2.000	1.00	0.030	0.040	17.00-19.00	9.00-12.00	-	-	-	%Ti-5 x C% min
Ferritic Stainless Steel											
430	0.120	1.000	1.00	0.030	0.040	16.00-18.00	-	-	-	-	-
430L	0.030	1.000	1.00	0.030	0.040	16.00-18.00	-	-	-	-	-
Welding Grades											
ER 307	0.20	5.00-8.00	0.65	0.030	0.030	17.00-20.00	7.00-10.00	0.50	0.50	-	-
ER 307Si	0.20	5.00-8.00	0.65-1.20	0.030	0.030	17.00-20.00	7.00-10.00	0.50	0.50	-	-
ER 308L	0.030	1.00-2.50	0.30-0.65	0.030	0.030	19.50-22.00	9.0-11.0	0.75	0.75	-	-
ER 308H	0.04-0.080	1.00-2.50	0.30-0.65	0.030	0.030	19.50-22.00	9.0-11.0	0.75	0.50	-	-
ER308LW	0.020	1.60-1.90	0.20	0.015	0.020	19.50-20.50	9.6-10.6	0.10	0.30	0.040	%Co-0.10 Max
ER 308LSI	0.030	1.00-2.50	0.65-1.00	0.030	0.030	19.50-22.00	9.0-11.0	0.75	0.75	-	-
ER309L	0.030	1.00-2.50	0.30-0.65	0.030	0.030	23.00-25.00	12.0-14.0	0.75	0.75	-	-
ER309H	0.04-0.080	1.00-2.50	0.30-0.65	0.030	0.030	23.00-25.00	12.0-14.0	0.75	0.50	-	-
ER 309LSI	0.030	1.00-2.50	0.65-1.00	0.030	0.030	23.00-25.00	12.0-14.0	0.75	0.75	-	-
ER 309LMO	0.030	1.00-2.50	0.30-0.65	0.030	0.030	23.00-25.00	12.0-14.0	0.75	2.00-3.00	-	-
ER 316L	0.030	1.00-2.50	0.30-0.65	0.030	0.030	18.00-20.00	11.0-14.00	0.75	2.00-3.00	-	-
ER 316H	0.04-0.080	1.00-2.50	0.30-0.65	0.030	0.030	18.00-20.00	11.0-14.00	0.75	2.00-3.00	-	-
ER 316LW	0.020	1.60-1.90	0.20	0.015	0.020	18.00-19.50	11.0-12.50	0.10	2.00-3.00	0.040	-
ER 316LWMO	0.020	1.60-1.90	0.20	0.015	0.020	18.00-19.50	11.0-12.50	0.10	2.50-3.00	0.040	Co-0.10 Max
ER 316LHMO	0.030	1.00-2.50	0.30-0.65	0.020	0.030	18.00-20.00	11.0-14.00	0.50	2.50-3.00	-	-
ER 316LSI	0.030	1.00-2.50	0.65-1.00	0.030	0.030	18.00-20.00	11.0-14.00	0.75	2.00-3.00	-	-
ER 316LSIMO	0.030	1.00-2.50	0.65-1.20	0.020	0.030	18.00-20.00	11.0-14.00	0.50	2.50-3.00	-	-
ER 310	0.08-0.15	1.00-2.50	0.30-0.65	0.030	0.030	25.00-28.00	20.0-22.05	0.75	0.75	-	-
ER 312	0.15	1.00-2.50	0.30-0.65	0.030	0.030	28.00-32.00	8.00-10.50	0.75	0.75	-	-
ER 317L	0.030	1.00-2.50	0.30-0.65	0.030	0.030	18.50-20.50	13.0-15.00	0.75	3.00-4.00	-	-
ER 318	0.080	1.00-2.50	0.30-0.65	0.030	0.030	18.00-20.00	11.0-14.00	0.75	2.00-3.00	-	%Nb-8XC min-1.00
ER 320	0.070	2.50	0.60	0.030	0.030	19.00-21.00	32.0-36.00	3.00-4.00	2.00-3.00	-	%Nb-8XC min-1.00
ER 320LR	0.025	1.50-2.00	0.15	0.020	0.015	19.00-21.00	32.0-36.00	3.00-4.00	2.00-3.00	-	%Nb-8XC min-0.40
ER 321	0.080	1.00-2.50	0.30-0.65	0.030	0.030	18.50-20.50	9.00-10.50	0.75	0.75	-	%Ti-9XC min-1.00
ER 347L	0.03	1.00-2.50	0.30-0.65	0.030	0.030	19.00-21.50	9.0-11.00	0.75	0.75	-	%Nb-10XCmin -1.00
ER 347	0.08	1.00-2.50	0.30-0.65	0.030	0.030	19.00-21.50	9.0-11.00	0.75	0.75	-	%Nb-10XC min-1.00
ER 347H	0.04-0.080	1.00-2.50	0.30-0.65	0.030	0.030	19.00-21.50	9.0-11.00	0.75	0.75	-	%Nb-10XCmin -1.00
ER 347LSI	0.03	1.00-2.50	0.65-1.00	0.030	0.030	19.00-21.50	9.0-11.00	0.75	0.75	-	%Nb-10XC min-1.00
ER 347SI	0.08	1.00-2.50	0.65-1.00	0.030	0.030	19.00-21.50	9.0-11.00	0.75	0.75	-	%Nb-10XC min-1.00
ER 385	0.025	1.00-2.50	0.50	0.020	0.020	19.50-21.50	24.00-26.00	1.20-2.00	4.20-5.20	-	-
ER 410	0.12	0.60	0.50	0.030	0.030	11.50-13.50	0.60	0.75	0.75	-	-
ER 410NiMO	0.06	0.60	0.50	0.030	0.030	11.0-12.50	4.00-5.00	0.75	0.40-0.70	-	-
ER 420	0.25-0.40	0.60	0.50	0.030	0.030	12.00-14.00	0.60	0.75	0.75	-	-
ER 430L	0.03	0.60	0.50	0.030	0.030	15.50-17.00	0.60	0.75	0.75	-	-
ER 430	0.10	0.60	0.50	0.030	0.030	15.50-17.00	0.60	0.75	0.75	-	-
ER 409Cb	0.08	0.80	1.00	0.030	0.040	10.50-13.50	0.60	0.75	0.5	-	%Nb-10XC min-0.75
ER 2209	0.03	0.50-2.00	0.90	0.020	0.030	21.50-23.50	7.5-9.5	0.75	2.50-3.50	0.08-0.20	
ER 2594	0.03	2.50	1.00	0.020	0.030	24.00-27.00	8.00-10.50	1.5	2.50-4.50	0.20-0.30	%W-1.00 max



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