

Product Range 2022-23

WEAR FACTOR	PRODUCT	CHEMISTRY	HARDNESS	APPLICATION
NEW Metal to metal	ULTRAWIRE 320	Medium Carbon Steel Deposition	28-32 HRC	Repair of Caster Rolls
NEW Impact with mild abrasion	ULTRAWIRE 450 WH	Hadfield Manganese deposit	20 HRC as deposited 45 HRC work hardening	Repair and build up of Manganese Steel
Impact with abrasion	ULTRAWIRE 1000 / 3000 / 5000	M ₇ C ₃ Carbides with Boron	58-62 HRC	Hammer crusher rolls, Table liners, Mandrel, Blow bars, etc.
Impact, abrasion and erosion	ULTRAWIRE 2000 / CTC 2000 ULTRAWIRE 4000	M ₇ C ₃ Carbides with MC ₃ Carbides	58-62 HRC	Fans, nozzles, coal pipes, bends, elbows, etc
Impact, abrasion and erosion at elevated temperature	ULTRAWIRE SUPER	M ₇ C ₃ Carbides with MC ₃ Carbides	60-65 HRC	Coal burner tip, Tip casting, Laddles, etc.
Extreme abrasion	ULTRAWIRE W ₂ C / CTC 6000 / ULTRAWIRE 6000	M ₇ C ₃ Primary Carbide + WC & W ₂ C	60-62 HRC	Apron feed chutes, Transfer chutes, Breaker plates, etc.
NEW Abrasion and Corrosion	ULTRAWIRE SUGARTECH	Chromium Carbide + Titanium Carbide	60-65 HRC	Sugar mill Top feed and TRPF rollers, depositing conical droplets

- Additional information such as Volume Fraction of Carbides, ASTM G65, ASTM G76, wear resistance values are available on request.
- Product variants to suit specific needs are available on request.
- ASTM Test results at elevated temperatures up to 800°C are available on request.

Packing & Availability

PACKING SIZE / kgs	WIRE DIAMETER / mm	SPOOL MATERIAL	WINDING
12.5	1.6, 2.4, 2.8	Plastic	External
15.0	1.6, 2.4, 2.8	Metallic	External
100	1.6, 2.4, 2.8, 3.2	Hardboard Drums	Internal
200	1.6, 2.4, 2.8, 3.2	Hardboard Drums	Internal

- Since we innovate constantly, product specifications are subject to change without prior notice.

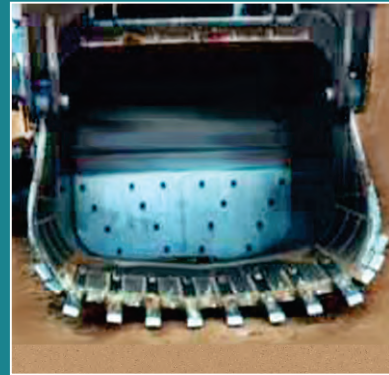


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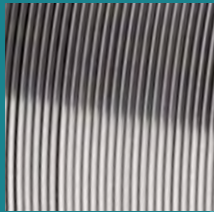


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World's fastest growing manufacturer
of flux cored open arc wires
producing 9000 tons per annum
and expanding...



INNOVATIVE HARDFACING WIRES
ULTRAWIRES
from TECKNOWELD ALLOYS



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Since 2014...

From 600 tons per annum, to over 9000 tons per annum today, and expanding further to 25000 tons per annum.

ULTRAWIRES are designed and engineered with innovative metallurgical solutions to combat wear and tear in core sector industries such as coal fired power, cement, mining, iron and steel, sugar, etc. in India and overseas. Tecknoweld products are being exported to Asia Pacific, Middle East, Africa and the Americas.

Prognosis of wear is done to develop innovative products using Chromium Carbides, Chromium Borides, Tungsten Carbides, Titanium Carbides and Complex Carbides.

Premium raw materials, Proven Technology. State of art manufacturing... Ultimate quality control systems.

- Fully integrated plant from micro slitting to Drum packing to produce wires at 30 tons per day.
- Specially designed Alloy mixture to achieve 100% consistency of the products.
- Fully automated mills to ensure fill ratio, wire diameter, wire stiffness, cast, helix and many more.
- Vacuum Packing system to ensure sea-worthy shipments.



ULTRAWIRES drum packed and ready for export



Integrated Slitting Line



Mixing through V type Bulk material blender



Milling and drawing of wires



Flux cored wire manufacture



Vacuum Packing

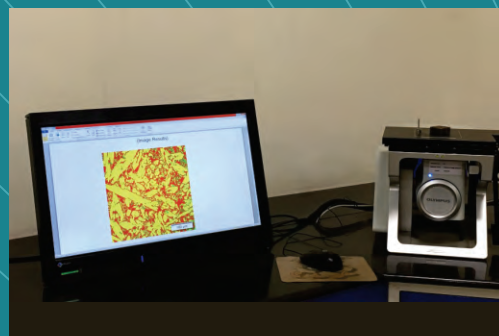
Drum Packing



Wet lab



Leco Globe Discharge Spectro



Olympus Image Analyser



Vickers Micro and Rockwell Macro Digital Hardness Testers



ASTM Dry Abrasion and Air jet Erosion Test Rigs

Innovative products through intensive R&D and metal expertise... A fully equipped QA lab.

Our team's vast experience with metals and user industries helps us in developing products that meet specific application requirements.

A well laid out Quality Assurance Plan right from raw material sourcing to delivery ensures that only quality products leave our shop floor.

A fully equipped Materials Testing Lab exercises rigid control over incoming raw materials. Our state-of-the-art Metallurgical Lab sports LECO Globe Discharge Spectro and Olympus Image Analyser.

Both micro and macro hardness profiles of hard overlay are being tested using Digital Vickers and Rockwell Hardness Testers.

Wear testing lab with ASTM G 65 Dry Abrasion and ASTM G 76 Airjet Erosion Test Rigs stimulate abrasive and erosive environment, even at high temperature of up to 800 deg C and confirm that wear properties are as per product design.

Online in-process-check procedures to ensure wire dia, ovality, fill ratio, cast, helix, visual and many more.



Barcoding for complete traceability