

Weartech™

COMPONENT PARTS





Founded in 1990, Weartech International, Inc. is a producer of cobalt and nickel-based hardfacing and wear-resistant welding consumables. For over 20 years, Weartech™ has provided technical solutions to customers facing significant wear problems. Headquartered in Anaheim, CA and with an additional manufacturing facility in Port Talbot, Wales, Weartech™ can support all your needs internationally.





COMPONENTS

Weartech™ component parts are designed to withstand extreme abrasion, corrosion, impact, and temperature. Made completely from wear-resistant alloys or hardfaced these products are designed to improve wear performance. We offer a variety of casting methods:

CENTRIFUGAL CASTING

A centrifugal force is exerted on the molten metal while being poured into a cylindrical mold spinning on its axis. Cooling crystals form at the mold metal interface. As the molten metal solidifies oxides, impurities, and gases are pushed towards the core, which is then bored out.

SOLID CAST & WROUGHT BAR STOCK

Solid bar stocks are used to engineer parts from cobalt and nickel based alloys. This method is used when the mechanical integrity is paramount. Solid bar stocks provide increased wear-resistance and reduced machinability.

INVESTMENT CASTING

Also known as the lost wax process, investment casting is done by creating a wax impression of the part and coated with various ceramic materials. The wear-resistant alloy is poured into the mold until the alloy is solidified. This method offers design flexibility, tight tolerances, high static and dynamic mechanical properties.

MACHINING

Our fully equipped machine shop is designed to perform a wide variety of machining and finishing operations by using our advanced CNC lathes. Components can be supplied as rough machined or finished machine parts.

HARDFACING

Customized hardfacing on components of simple to moderate complexity. Once the components have been hardfaced, they are properly stress relieved, heat-treated and then machined to specific specifications.



WEARTECH HARDFACING AND WEAR-RESISTANT ALLOYS

Alloy	AWS Specification	Application	Available Form Cast & Machined
COBALT			
WT-1	ERCoCr-C	Seaming Rolls, Valve Seats, Wear Pads, Pump Sleeves, Seals, Bearings, Bushings, Saw Blades, Cutters	X
WT-3	-	Steel Mill Guide Rolls, Forming Rolls, Bushings, Seal Rings	X
WT-4	-	Battery Mold, Guide Rolls for Galvanized Tanks	X
WT-6	ERCoCr-A	Engine Valves, Pump Shafts & Sleeves, Hot Cutting & Rotary Knives, High Pressure & Temperature Valves, Extrusion Screws	X
WT-12	ERCoCr-B	Extrusion Dies, Scissor Blades, Saw Blades, Guide Bars, Wood Cutting Tools, Pump Sleeves, Twist Rolls, Knives	X
WT-19	-	Guide Rolls, Thrust Bearing Shoes, Ball Bearing Races	X
WT-21	-	Hot Trimming & Forging Dies, High Pressure & Temperature Valves, Hot Shears, Valve Seats, Pump Impellers, Rings	X
WT-25	-	-	X
WT-31	-	-	X
WT-32	ERCoCr-F	Engine Valves and Seats	X
WT-400	-	Bearings (Journal or Sleeves)	X
WT-800	-	Magnetic Tape Heads, Valves, Extruder Barrels	X
Ultimet®	-	Components Subjected to Corrosion & Moderate Wear	X
NICKEL			
WT-40	RNiCr-A	Glass Industry Plungers & Mold Components	X
WT-50	RNiCr-B	Liners, Thrust Shoes, Bushings, Cages & Other Valve Components for Nuclear Applications	X
WT-60	RNiCr-C	Pump Sleeves	X
WT-700	-	Nuclear Applications	X
WT-C	AMS 5388	Seals, Sleeves & Dies, Plastic Extrusion, Agitator Bearings, Pump Impellers, Ball Valves	X
WT 45	-	-	X
IRON			
WT-NR-02 A	-	For Cobalt-Free Components in Nuclear Applications, Valves	X
Ni-Res	A-439-83	-	X

CUSTOMER ASSISTANCE POLICY

Weartech International, Inc. a Lincoln Electric company is manufacturing and selling high quality welding consumables. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Weartech International, Inc. for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Weartech International, Inc. does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Weartech International, Inc. is a responsive manufacturer, but the selection and use of specific products sold by Weartech International, Inc. is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Weartech International, Inc. affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.weartech.net for any updated information.



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