

Triten® T-200X is a high-chromium cast iron hardfacing alloy in tubular (metal-cored) wire form. It is best suited for extreme sliding abrasion from large, hard particles, with moderate impact tolerance. This is ideal for large, static or lightly impacted components where long service life is required.

Key Strengths

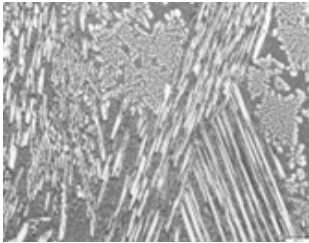
- ~30–40% primary Cr-carbides (volume fraction)
- ~70% total carbide distribution within matrix
- Dense, uniform carbide distribution
- Excellent abrasion resistance
- Predictable metallurgy and fabrication behavior
- Optimized cost-to-wear-life performance

Details / Features

- Metal-cored wire
- Open-arc or gas-shielded
- Up to 2 layers can be applied
- Cutting with plasma torch is recommended
- Stress-relief cracking is normal and will occur

Metallurgical Structure

Triten® T-200X exhibits a hypereutectic high-chromium white iron microstructure consisting of coarse, directional primary Cr₇C₃ carbides embedded in a eutectic chromium carbide network within a predominantly austenitic matrix with localized martensitic transformation.



Material Properties

C	Mn	Si	Cr	Hardness
~ 6%	~ 1%	~ 2%	~ 30%	58-64 HRC

Welding Parameters

Wire Diameter		Amperage		Voltage		Stick-out		Shielding Gas
1.6 mm	1/16"	~ 250	160 - 320	~ 28	24 - 30	~ 25 mm	~ 1"	Ar/CO ₂ Mix or 100% CO ₂
2.4 mm	3/32"	~ 350	250 - 450	~ 30	26 - 32	~ 30 mm	~ 1-1/4"	
2.8 mm	7/64"	~ 400	250 - 450	~ 30	26 - 32	~ 38 mm	~ 1-1/2"	

Typical Applications

- Belt conveyor chutes
- Blast furnaces
- Ore, coal, clinker, slag
- Material handling liners
- Rollers, crushers
- Valve bodies