

MT-50 Mild Steel Welding Electrode

The MT-50 is an ilmenite type electrode designed for welding mild steel. It exhibits excellent welding performance in all positions and the deposited metal offers good mechanical properties.



ADDITIONAL IMAGES



Product Overview

WELDING ELECTRODE

MT-50 CONFORMS TO AWS E6019

ELECTRODE FOR WELDING MILD STEEL

Description:
MT-50 is an ilmenite electrode designed for welding mild steel. It exhibits excellent welding performance in all positions and the deposited metal offers good mechanical properties.

Applications:
For medium and thick armor plate structures such as ships, bridges, machinery and so on.

Element	Min	Max	Min	Max
C	0.05	0.10	0.05	0.10
Mn	0.50	0.70	0.50	0.70
P	0.010	0.020	0.010	0.020
S	0.005	0.010	0.005	0.010

Temp (°C)	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Charpy V Impact (J)
RT	480	370	29	70
-20	480	370	29	70

Please refer to the technical manual for more details. © Merhein Group. All rights reserved.

Technical overview and application details for the MT-50 welding electrode.

MT-50 Mild Steel Welding Electrode

The MT-50 is an ilmenite type electrode specifically engineered for welding mild steel. It is designed to offer excellent welding performance in all positions with smooth travel characteristics. Recognized for its quality in the shipbuilding industry, it is an ideal choice for medium and thick armor plate structures, including ships, bridges, and machinery.

Standards & Approvals

AWS Classification	E6019
Classification Society Approvals	ABS, BV, DNV, GL, LR, NK

Mechanical Properties

Performance Metrics

370 Mpa
Yield Strength

480 Mpa
Tensile Strength

29 %
Elongation

70 J
Charpy V Impact (-20°C)

Chemical Composition

Typical Chemical Composition (%)

Element	Typical Content (%)
Carbon (C)	0.08
Manganese (Mn)	0.51
Silicon (Si)	0.25
Sulfur (S)	0.019
Phosphorus (P)	0.029

Logistics & Packing

Standard Packing

- 20kg net weight per carton
- 8 boxes x 2.5kg (for 2.5mm electrodes)
- 4 boxes x 5kg (for other sizes)
- Palletization optional