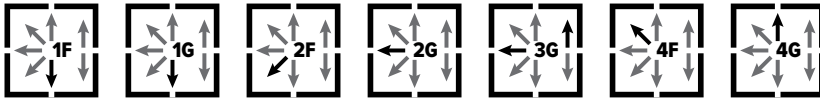


FLUX-CORED GAS-SHIELDED WIRE

HYPERSHIELD 81T



Summary

HYPERSHIELD 81T is a flux-cored wire formulated for the welding of 590MPa high tensile steel. With its slow freezing slag system, it promotes consistent bead formation and easy slag removal, ensuring high-quality welds. Infused with nickel, this wire enhances the weld's strength and toughness, making it especially suitable for environments demanding high resilience.

Typical Applications

- Structural projects in seismically active areas
- Offshore platforms and structures
- Heavy equipment manufacturing
- High-strength frame structures
- Crane construction and repair
- Pressure vessel fabrication
- Pipeline construction and repair
- Construction of modern transport infrastructure
- Projects that require resistance to low-temperature impact toughness

Classification

- AS/NZS ISO 17632-B: T55 3 T1-1C A N2-U H5

Standards

- AWS A5.20: E81T1-Ni1C/Ni1M
- AWS A5.29 E81T1-Ni1C/Ni1M H8

Approvals

- JIS

Packaging Info

SKU	WIRE SIZE	WEIGHT	DESCRIPTION
U61005	1.2mm	15kg	HYPERSHIELD 81T FLUX-CORED GAS-SHIELDED WIRE 1.2MM 15KG
U61006	1.6mm	15kg	HYPERSHIELD 81T FLUX-CORED GAS-SHIELDED WIRE 1.6MM 15KG

Recommended Gas

- Ar+20-25% CO₂
- 100% CO₂

Operating Polarity

- DCEP

Typical Chemical Composition (%)

C	Mn	Si	P	S	Ni
0.040	1.060	0.480	0.010	0.010	0.900
Cr	Mo	V	Cu	Al	
0.020	0.010	0.010	0.010	0.010	

Typical Mechanical Analysis

YIELD STRENGTH	590
TENSILE STRENGTH	623
ELONGATION	25
TEST TEMP. (°C)	-30
ABSORBED ENERGY	123

Country of Origin



Made in South Korea