

MNI 425

Gas Metal Arc (MIG) Welding Wire - Nickel Alloys

Standards	
AWS/ASME SFA - 5.14	ERNiCrMo-3
EN ISO 18274 - A	SNi 6625 (NiCr22Mo9Nb)
TS EN ISO 18274 - A	SNi 6625 (NiCr22Mo9Nb)
DIN M. No.	2.4831

Properties and Applications

Ni-Cr-Mo alloyed GMA (MIG) welding wire, depositing Ni-22Cr9Mo3,5Nb weld metal. Used for welding of highly corrosion resistant Ni-Cr-Mo alloys, like Alloy 625, 825 and similar alloys. Due to it's good cryogenic toughness down to -196°C, preferred for welding of cyrogenic nickel alloys, e.g. X1NiCrMoCuN25-20-7. In sulphur free atmospheres the weld metal is nonscaling up to 1200°C, in sulphurous atmospheres the weld metal can be used in service temperatures up to 500°C. It is also highly resistant stress corrosion cracking and pitting corrosion in phosphoric acid, organic acids, sea water and polluting environments. Weld metal is insensitive to cracking and very resistant to thermal shocks. Used for joining of dissimilar nickel alloys, joining dissimilar stainless steels, low alloyed steels to stainless steels or to nickel alloys, buffering of difficult to weld steels and repair welding of them.Stick Electrode : ENI 425TIG Welding Rod: TNI 425

Typical Chemical Features of the Welding Wire									
Type of Analysis	С	Si	Mn	Cr	Ni	Мо	Nb	Ti	Fe
Welding Wire	0.01	0.05	0.05	22.20	65.00	8.70	3.65	0.20	0.14

Typical Mechanical Values of Weld Metal

Test Condition	Protection Gas Yield Strength (N/mm²)		Tensile Strength (N/mm²)	Elongation A5 (%)	Charpy V-Notch Properties (J)	
As welded	11	460	720	40	20°C → 110	-196°C → 100

^{*} Chemical compositon and mechanical properties are valid when using shielding gas



Packaging Information							
Product Code	oduct Code Diameter (mm) Quantity per Box		Box Gross Weight (kg)	Boxes per Outer Box	Outer Box Gross Weight (kg)	Packaging Type	
26004EJAM2	1.20	15 kg	15.70	1	15.70	Wire Basket Spool (K300MS)	

Storage & Re-Drying Information

Shouldn t be exposed to high statical load and impact. It should be stored in a dry room (relative humidity < 50%, room temperature > 20° C) on wooden pallets.