TECHNICAL DATA SHEET

parweld
WELDING THE FUTURE

XP NiCrMo-3 (ALLOY 625)

NICKEL ALLOY

CLASSIFICATIONS

EN ISO 18274	AWS A5.14
S Ni 6625 - NiCr22Mo9Nb	ERNiCrMo-3

KEY FEATURES AND APPLICATIONS

- High-nickel alloy wire specifically designed for welding and cladding nickel-based materials, including types like 625 or similar.
- Solid-drawn using a unique process, resulting in cleaner, higher-quality welds that feature a bright appearance and excellent ductility.
- Alloy 625 has strong resistance to both pitting and stress corrosion.
- Recommended for use in applications where temperatures range from cryogenic up to 540°C.
- Commonly used in demanding sectors such as the chemical processing industry, marine engineering, nuclear reactor component manufacturing, aerospace, and pollution control equipment.

BASE MATERIALS

Inconel 601, Incoloy 800, Alloy 625, Alloy 825, Alloy 926

CHEMICAL COMPOSITION OF WIRE %

	C	Mn	Fe	Si	Cu	Ni	Al	Ti	Cr	Nb	Mo
MIN	-	-	-	-	-	-	-	-	20.0	3.0	8.0
MAX	0.1	0.5	5.0	0.5	0.5	≥58.0	0.4	0.4	23.0	4.1	10.0

Single values are maximum values according to EN ISO 18274

MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)	Impact ISO-V (J)
≥415	≥760	≥35	≥100

Test data for mechanical properties are not guaranteed since actual as welded conditions depend on numerous variables

OPERATING DATA

Shielding Gases	Polarity
EN ISO 14175 - I1	DC-

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Pallet Qty
XP35310	1.6	1000	5	PAP 20 Tube
XP35312	2.4	1000	5	PAP 20 Tube
XP35314	3.2	1000	5	PAP 20 Tube

MADE IN EU