

Standards

Chemical Composition of Welding Wire % (Typical)

	TS EN ISO 18274	: S Ni 6625 (NiCr22Mo9Nb)
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AWS A5 14		· FR Ni Cr Mo 3

Ni	С	Cr	Mn	Fe	Mo	Nb
Rest	0.02	22.0	0.20	1.0	9.0	3.50

Mechanical Properties

Yield Strength (N/mm²)	Tensile Strength (N/mm²)	$\begin{array}{c c} \textbf{Impact Strength} \\ (ISO-V/+20^{\circ}C) & (ISO-V/-196^{\circ}C) \end{array}$		Elongation ((Lo=5do) (%))
540	800	140 J	75 J	38

Typical Base Material Grades

1.4583 X10CrNiMoNb18-12, 1.4876 X10NiCrAITi32-20, 1.4529 X1NiCrMoCuN25-20-7,
X2CrNiMoCuN20-18-6, 2.4641 NiCr 21 Mo 6 Cu, 2.4856 NiCr 22 Mo 9 Nb, 2.4858 NiCr 21 Mo,
2.4816 NiCr 15 Fe
Welding of Joining: P265GH, P285NH, P295GH, 16Mo3, S355N, X8Ni9 ((Inconel 600), ((Inconel 625), ((Incoloy 800))

Features and Applications

- Applicability in joint welding of steels with high Mo-contents to steels with Ni-based alloy steels, joint welding of different types of steels, and in welding of low-alloyed problematic steels
- Suitablity for use in manufacture processes of pressure vessels with service temperatures between -196°C and + 550°C High resistance to creep, to high temperatures, and to low temperatures (cryogenic applications) Resistance to formation of oxide layers at temperatures up to 1200°C Loss of elasticity at temperatures between 600°C 800°C. High strength against hot cracking. General tendency towards diffusion of carbon at high temperatures or towards heat treatments of different materials. Very high resistance to stress corrosion and to pitting corrosion (PREN 52). Resistance to thermal shocks Austenitic-structured stainless material with low coefficient of thermal expansion. Very excellent performance in TIG welding. Use of Ar or Ar+He mix as shielding gas.

Welding Positions













Current Type

MIG D.C. (+) / TIG D.C.(-)

Operating Data

Product Code	Diameter x Length (mm) / (inch)	Package Weight (Kg)
6031100099	1.00 / 0,040"	15
6031100298	1.20 / 0,047"	15
6031100101	1.6 x 1000 / 1/16 x 39"	5
6031100299	2.0 x 1000 / 5/64 x 39"	5
6031100300	2.4 x 1000 / 3/32 x 39"	5

Approvals: SEPRO