Thermanit 17/15 TT

TIG rod, high-alloyed, austenitic stainless

Classifications

EN ISO 14343-A

W Z 17 15 Mn W

Characteristics and typical fields of application

TIG rod of W Z 17 15 Mn W type for joining applications with cryogenic austenitic CrNi(N)-steels and cast steel grades and cryogenic 9Ni-steels suitable for quenching and tempering. Good toughness at subzero temperatures as low as –196°C.

Base materials

1.5662 X8Ni9, 1.4311 X2CrNiN18-10

Typical analysis

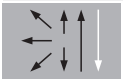
	C	Si	Mn	Cr	Ni	W
wt.-%	0.20	0.4	10.5	17.5	14.0	3.5

Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength $R_{p0.2}$	Yield strength $R_{p1.0}$	Tensile strength R_m	Elongation A (L_0=5d_0)	Impact energy ISO-V KV J	
	MPa	MPa	MPa	%	20°C	–196°C
u	450 (≥ 430)	500 (≥ 460)	650 (≥ 600)	33 (≥ 30)	150 (≥ 100)	85 (≥ 50)

u untreated, as-welded – shielding gas I1

Operating data



Polarity	DC-	**Dimension mm**
Shielding gas (EN ISO 14175)	I1	2.4 x 1000
		3.2 × 1000

Preheating as required by the base metal.

Approvals

TÜV (03090), CE