

Thermanit MTS 3

Stick electrode, low-alloyed, basic

Classifications

EN ISO 3580-A

E CrMo9 1 B 4 2 H5

AWS A5.5 E9015-B9

Characteristics and typical fields of application

Creep resistant, resistant to scaling up to 600 °C (1112 °F). Suited for joining and surfacing applications with quenched and tempered 9 % Cr steels, particularly for matching creep resistant parent metal T91 / P91 according to ASTM.

Base materials

1.4903 – X10CrMoVNb9-1; ASTM A199 Gr. T91; A213/213M Gr. T91; A355 Gr. P91 (T91)

Typical analysis of all-weld metal (wt%)												
	С	Si	Mn	Cr	Мо		Ni	V	Nk)	Ν	
wt-%	0.09	0.3	0.5	9.0	0.9		0.7	0.2	0.0	05	0.04	
Mechanical properties of all-weld metal												
Heat- treatment	Yield strength R _{p0.2}		Tens R _m	Tensile strength R_m			Elongation A (L ₀ =5d ₀)			Impact work ISO-V KV J		
	MPa		MPa	MPa			%			+20 °C		
760 °C/2 h	550		680	680			17			47		
Operating data												
	Polarity: DC(+)	30((;	Redrying: 300 – 350 °C / 2 (572 – 662 °F)			ø (mm) 2.5 3.2 4.0 5.0		L mm 250 350 350 450		Amps A 60 – 80 90 – 120 110 – 140 150 – 180		
Approvals												
TÜV (09168), CE												