

Thermanit 17/15 TT - Marathon 104

SAW wire/flux combination, high-alloyed, austenitic stainless, cryogenic

Classifications										
EN ISO 14174				EN ISO 14343-A				AWS A5.9 / SFA-5.9		
S A FB 2 AC			S Z 17 15 Mn W				-			
Characteristics and typical fields of application										
 Thermanit 17/15 TT - Marathon 104 is a wire-flux combination for SAW welding. Suitable for joining applications with cryogenic austenitic CrNi(N) steels / cast steel grades and cryogenic Ni steels; suitable for quenching and tempering. Good toughness at subzero temperatures as low as –196 °C (–321 °F). Marathon 104 is an agglomerated fluoride-basic welding flux without Cr support and neutral metallurgical behaviour. For information regarding this sub-arc welding flux see our detailed data sheet. 										
Base materials										
1.5662 – X8Ni9; 1.4311 – X2CrNiN18-10										
Typical analysis										
wt%	С		Si		Mn		Cr		Ni	W
wire	0.2	0	0.4		10.2		17.5		14	3.5
all-weld metal	0.1	8	0.5		9.3		17.2		14.0	3.4
Mechanical properties of all-weld metal - typical values (min. values)										
Condition		Yield strength R _{p0.2}		Tensile strength R_m		Elongation A ($L_0 = 5d_0$)		Impact energy ISO-V KV J		
		MPa		MPa		%		+20°C		-196°C
u		> 430		> 620		> 30		80		50
u untreated, as w	velde	d								
Operating dat	a									
Polarity		DC+	D		Dimension mm					
				2.		2.4				
					:	3.2				
Approvals										
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