

Union S 1 CrMo 9

SAW wire, low-alloyed, creep resistant

Classificat	ions								
AWS A5.23 / SFA-5.23					EN ISO 24598-A				
EB8					S S CrMo9				
Characteris	stics and ty	pical fields	of applicat	ion					
Union S 1 CrMo 9 is a solid wire for submerged arc welding for 9 % Cr 1 % Mo creep resistant steels and steels for hot hydrogen service, particularly for application in oil refineries and the base metals X12CrMo9-1 (P9). Approved in long-term condition up to +600 °C service temperature.									
Recommend Marathon 543		:							
Base materials									
Similar alloyed creep resistant steels 1.7386 X12CrMo9-1, 1.7388 X7CrMo9-1, 1.7389 GX12CrMo10 ASTM A217 Gr. C12, A 234 Gr. WP9, A335 Gr. P9									
Typical ana	alysis								
	C		Si		Vin		Cr		Мо
wt%	0.08 0.4		0.4	0.4 0.			9.1		1.0
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	
		МРа		МРа		%		20°C	
а		≥ 435		≥ 590		≥ 18		≥ 34	
a annealed 760°C/3 h / furnace down to 300°C / air									
Operating (data								
	Dimension mm								
3.0									
							t 3 h followed by co ice departments.	oling	g in furnace down to
Approvals									

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