

MIG 20/25CU

Classification

AWS A5.9 : ER385 | ISO 14343-A : G 20 25 5 Cu L

Description & Applications

Low carbon content solid wire for GMAW of totally austenitic stainless steels like Ur B6™, 904L.... Very good resistance to attacks by organic, phosphoric and sulphuric acids. High resistance against pitting and stress corrosion in chloride containing media.

Main applications: Petrochemical and chemical industries, pulp and paper industry.

Base material: Fully austenitic stainless steel:

UNS	Alloy	EN 10088	Material N°
N0890 <mark>4</mark>	904L	X1NiCrMoCu25-20-5	1.4539

Typical Chemical Composition (%)

	С	Si	Mn	Cr	Ni	Мо	Cu	Nb	Р	S	Co	Ν
Min			1.0	19.5	24.0	4.2	1.2	-			-	-
Max	0.025	0.50	2.5	21.5	26.0	5.2	2.0	-	0.02	0.02	-	-
Type	0.010	0.40	1.8	20.0	25.0	4.5	1.5	0.01	0.015	0.01	0.05	0.05

All Weld Metal Mechanical Properties

	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)	KV (J)
Min	320	520	30	-	-
Max				-	-
Туре	380	550	35	+20°C -196°C	120 80

Welding Current & Instructions

Wolding mode	Wire Ø	Welding p	Shiolding Goo	
Welding mode	(mm)	Current (A)	Voltage (V)	Shielding Gas
GMAW = +	0.8 1.0 1.2 1.6	70 - 180 80 - 220 150 - 320 220 - 380	18 - 26 18 - 28 22 - 32 24 - 34	ISO 14175: M12 (Ar+0.5-5%CO ₂) M13 (Ar+0.5-3%O ₂) 15-20 l/min

Back shielding with Argon or Nitrogen gas or with copper backing support to avoid "back end" rust phenomena.

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