

# 9CrWV MIG

## TOP FEATURES

- Solid wire for MIG welding of P92 creep resisting steels

## CLASSIFICATION

AWS A5.28 ER90S-G (92)  
EN ISO 21952-A G ZCrMoWVNb 9 0.5 1.5

## SHIELDING GASES (ACC. EN ISO 14175)

M13 Mixed gas Ar+ 0.5-3% O<sub>2</sub>  
M20 Mixed gas Ar+ 5-15% CO<sub>2</sub>

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

	C	Mn*	Si	S	P	Cr	Ni*	Mo	W	Nb	V	N	B	Al	Cu
Min.	0.10	0.40	0.30			8.0	0.20	0.30	1.50	0.04	0.18	0.04	0.0025		
Max.	0.12	0.60	0.50	0.01	0.01	9.5	0.40	0.60	2.00	0.07	0.25	0.07	0.0060	0.01	0.10
Typical	0.11	0.5	0.40	0.003	0.004	9.2	0.35	0.45	1.7	0.05	0.2	0.05	0.0035	<0.01	<0.05

\* Mn + Ni ≤ 1.0%

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Properties after PWHT		Min.	Typical (760°C/2-4h)
Tensile strength	(MPa)	620	770
0.2% Proof strength	(MPa)	540	650
Elongation	4d	16	18
	5d		16
Reduction of area (%)			70
Impact ISO-V (J)	+ 20°C		220
Hardness (HV)			265

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.0	SPOOL	12.5	M9CRWV-10
1.2	SPOOL	12.5	M9CRWV-12

## TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing.  
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