# **CEWELD®**

# 2209 Duplex Tig

**CATEGORY** 

TYPE Solid drawn filler metal for welding Duplex stainless steels.

**GMAW-GTAW Solid wires** 

APPLICATIONS

Used for pipe work and general fabrication in the offshore oil and gas and chemical process industries. Also

suitable for cladding steels to obtain corrosion resistant layers.

PROPERTIES A continuous, solid, corrosion-resistant, duplex wire for welding austenitic-ferritic stainless alloys of the 22%

Cr, 5% Ni, 3% Mo types. 2209 has high general corrosion resistance. In media containing chloride and hydrogen sulphide, the alloy has a high resistance to intergranular corrosion, pitting and especially to stress

corrosion. The alloy is used in a variety of applications across all industrial segments.

CLASSIFICATION AWS A 5.9: ER 2209

EN ISO 14343-A: W 22 9 3 N L

DIN: W.Nr. 1.4462

DIN 8556: SG X2CrNiMo 22 9 3

SUITABLE FOR Welding wrought, forged or cast duplex stainless steels in the as welded condition. Also suitable for dissimilar

welding of low alloyed steels and common stainless steels, UNS S31803, S32205, UR 45N & UR 45N+, 2205, SAF 2205 Fafer 4462, NKCr22, SM22Cr, Falc 223 UNS S32304 : UR 35 N SAF 2304

W.Nr: 1.4462, X2CrNiMoN 22 5 3, 1.4362, X2CrNiN 23 4, 1.4463, 1.4460, 1.4583

APPROVALS TUV (12396.00), CE approved.

WELDING POSITIONS:



## TYPICAL ALL WELD METAL ANALYSIS

С	Mn	Si	Cr	Ni	Мо	N
0,025	1,60	0,5	23.0	9.0	3.0	0,14

# **MECHANICAL PROPERTIES**

Heat treatment	RP0,2	Rm A5 Impact energy (J) ISO-V					Hardness		
	(N/mm2)	(N/mm2)	(%)	+20C	-40°	,C	-60C	İ	HRc / HV
AW	>570	>740	27	>100			>37	i i	

#### AW: as welded

### WELDING PARAMETERS / PACKING

Welding Parameters			Packing (kg)			
D (mm)		Current (A) DC-	single	master		
1,6 x 1000		50-80	5	25		
$2.0 \times 1000$		70-110	5	25		
2.4 × 1000		110-180	5	25		

REDRYING TEMPERATURE not required

GAS ACC. EN ISO 14175: I1, Ar+1-2%N2