CEWELD®

310 Tig

CATEGORY	GMAW-GTAW	Solid wires			
ТҮРЕ	High heat resistant stainless steel welding wire for Tig welding.				
APPLICATIONS	Common applications include industrial furnaces, annealing chambers, fused salt treatment installations and boiler parts, as well as heat exchangers.				
PROPERTIES	Solid drawn ,corrosion-resistant, chromium-nickel wire for welding heat-resistant austenitic steels of the 25% Cr, 20% Ni types. 310 has good general oxidation resistance, especially at high temperatures, due to its high Cr content. The alloy is fully austenitic and is therefore sensitive to hot cracking. The temperature limits for use under intermittent oxidation depend on cycle frequency. In no case shall a temperature of 1000°C be exceeded. This alloy can withstand relatively severe thermic shock, and is superior to type 309 L.				
CLASSIFICATION	AWS EN ISO DIN: W.Nr. DIN	A 5.9: ER 310 14343-A: W 25 20 Mn 14343-B: SSZ310 1.4842 8556: SG X12CrNi 25 20			
SUITABLE FOR	Heat resistant stainless steels: 1.4823, 1.4826, 1.4828, 1.4832, 1.4835, 1.4840, 1.4841, 1.4846, 1.4848, 1.4837, 1.4710, 1.4713, 1.4724, 1.4726, 1.4742, 1.4745, 1.4762, 1.4845, 1.4849, 253MA X15CrNiSi 25 20, G-X40CrNiSi 25 12, G-X15CrNi 25 20				
APPROVALS	CE approved				

WELD METAL ANALYSIS

WELDING POSITIONS:

	•	•		•	•	
С	Mn	Si	Cr	Ni	Мо	Cu
0.10	1.8	0.5	26	21	<0,3	<0,3

PA PB PC PC PF PF

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	lmp	act Energy (J) I	SO-V	Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	+20°C	-40°C	-196°C	HRc / HV
AW	390	590	45	175		60	

AW: as welded

WELDING PARAMETERS / PACKING

V	Packing (kg)		
D (mm)	Current (A) DC-	single	master
1.6 x 1000	50-80	5	25
2.0 x 1000	70-110	5	25
2.4 x 1000	110-180	5	25
3.2 x 1000	150-250	5	25

REDRYING TEMPERATURE not required

GAS ACC. EN ISO 14175:

II