CEWELD[®]

ER Ti-12

CATEGORY	GMAW-GTAW Solid wires					
ТҮРЕ	Solid drawn Titanium Grade 12 welding wire .					
APPLICATIONS	This alloy finds his applications in chemical industry and offers excellent Weldabillity. Often recomended for pressure vessels and piping for its superior strenght alone.					
PROPERTIES	ER Ti-12. Grade 12 (Ti 0.8Ni0.3Mo) is an intermediate strength grade originally developed to provide enhanced crevice-corrosion resistance in high temperature brines, but at lower cost than Grade 7. The improved performance is believed to be the result of Ni++ and Mo++ ions that alter the surface electrochemistry of the material in the crevice or under a surface deposit. Grade 12 has better elevated temperature properties than Grade 2 or 3 and is sometimes specified for pressure vessels or piping for its superior strength alone.					
CLASSIFICATION	AWS A 5.16: ER Ti 12 UNS: R53401 EN ISO 24034: STi-3401 DIN: W.Nr. 3.7105 DIN 1737:					
SUITABLE FOR	Titanium grade 12, Grade 7, Grade 2 and Grade 3					
APPROVALS	CE approved					
WELDING POSITIONS:						

ALL WELD METAL WEIGHT %

С	0	Ν	Н	Fe	Al V	Pd	Мо	Ni
<0.03	0.08-0.16	<0.015	<0.008	<0.15			0.2-0.4	0.6-0.9

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	4	45	In	npact Energy (J) I	SO-V	Hardness
Treatment	(N/mm ²)	(N/mm ²)	('	%)	-20°C	-40°C	-60°C	HRc / HV
as welded	345	483						

WELDING PARAMETERS / PACKING

	Packing		
D (mm)	Length (mm)	Current (A)	kg / tube
1,2	1000		5
1.6	1000		5
2.0	1000		5
2.4	1000		5

REDRYING TEMPERATURE	not required
NOTE	Also available as spooled wire :0.8 mm, 1.0 mm and 1.2 mm (D-100 / D-200 / D-300)