



Mill Test Certificate



ESAB SeAH Corporation,
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Certificate No : 07-41-0222
Issued Date : 2007.03.08

Brand Name : DUAL SHIELD 70ULTRA PLUS

Customer Name : PACIFIC INDUSTRIAL SUPPLIES P.TY LTD
P/O No. : 31376

This Material conforms to Specification :
AWS A 5.20-95, ASME SFA 5.20

Diameter Size : 1.2 MM
Weight : 570.0 KG
Lot Number : F104A7A100
Shielding Gas : 100% CO2

Type : E71T-1/T-1M/T-9M

Chemical Compositions

Element	Specification	Requirements
C	0.18	MAX
Mn	1.75	MAX
Si	0.60	MAX
S	0.005	MAX
P	0.017	MAX
Cr	0.02	MAX
Ni	0.01	MAX
Mo	0.01	MAX
V	0.02	MAX
Al	N/A	
Cu	0.35	MAX
Ti	N/A	
Co	N/A	
N	N/A	
Cb+Ta	N/A	
Fe	N/A	
Zn	N/A	
Be	N/A	
Pb	N/A	
Sn	N/A	
W	N/A	
Others	N/A	

Typical Mechanical Properties

Property	As welded	As welded	Specification
Tensile Test			
Y.S.(0.2%) Mpa (ksi)	475 (68.9)	475 (68.9)	MIN 400 (58.0)
T.S. Mpa (ksi)	558 (80.9)	558 (80.9)	MIN 480 (69.6)
Elongation(2"),%	32	32	MIN 22
Reduction of Area, %	76	76	N/A
Impacts test, Joule(ft-lb)			
(Charpy V-Notch)			
-18 °C (0 °F)	118 (87.0)	118 (87.0)	MIN 27 (19.9)
-29 °C (-20 °F)	97 (71.5)	97 (71.5)	MIN 27 (19.9)
Fillet Weld Test			
	Satisfactory	Satisfactory	
Radio-graphic test			
	Satisfactory	Satisfactory	

As welded
Requirements
Specification

Remark:

The undersigned certifies that the products supplied will meet the applicable AWS or JIS (if applicable) Filler Metal specification when tested in accordance with those specifications.
The chemistry and ferrite values (if applicable) are made from actual determinations with this lot of electrodes.

Y. C. Kim

By :

Y.C.Kim, Manager, Q.M.Team