



Mill Test Certificate

**ESAB SeAH Corporation**

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Certificate No : 07-41-0344
 Issued Date : 2007.04.06

Brand Name : DUAL SHIELD 7100ULTRA

Customer Name : PACIFIC INDUSTRIAL SUPPLIES PTY LTD
 P/O No. : 31724

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

Diameter Size : 1.6 MM
 Weight : 810.0 KG
 Lot Number : F103A7A500
 Shielding Gas : 100% CO2

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

<u>Chemical Compositions</u>		<u>Specification Requirements</u>		<u>Typical Mechanical Properties</u> As welded		<u>Specification Requirements</u> As welded	
C	0.04	MAX	0.18	Tensile Test			
Mn	1.37	MAX	1.75	Y.S.(0.2%) Mpa (Ksi)	465 (67.4)	MIN	400 (58.0)
Si	0.55	MAX	0.90	T.S. Mpa (Ksi)	548 (79.5)	MIN	480 (69.6)
S	0.006	MAX	0.030	Elongation(2"),%	34	MIN	22
P	0.015	MAX	0.030	Reduction of Area,%	74		N/A
Cr	0.02	MAX	0.20	Impacts test, Joule(ft-lb)			
Ni	0.01	MAX	0.50	(Charpy V-Notch)			
Mo	0.01	MAX	0.30	-18 °C (0 °F)	122 (90.0)	MIN	27 (19.9)
V	0.02	MAX	0.08	-29 °C (-20 °F)	84 (62.0)	MIN	27 (19.9)
Al			N/A	Fillet Weld Test Satisfactory			
Cu	0.01	MAX	0.35	Radiographic test Satisfactory			
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				

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