



Mill Test Certificate

**ESAB SeAH Corporation**

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Certificate No : 07-41-0229
 Issued Date : 2007.03.08

Brand Name : DUAL SHIELD T-5

Customer Name : PACIFIC INDUSTRIAL SUPPLIES PTY 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 : 720.0 KG
 Lot Number : F600A7B410
 Shielding Gas : 70-80%Ar+CO2

Type : E71T-5MJ

<u>Chemical Compositions</u>		<u>Specification Requirements</u>		<u>Typical Mechanical Properties</u> As welded		<u>Specification Requirements</u> As welded	
C	0.06	MAX	0.18	Tensile Test			
Mn	1.30	MAX	1.75	Y.S.(0.2%) Mpa (Ksi)	436 (63.2)	MIN	400 (58.0)
Si	0.62	MAX	0.90	T.S. Mpa (Ksi)	517 (75.0)	MIN	480 (69.6)
S	0.005	MAX	0.030	Elongation(2"),%	36	MIN	22
P	0.017	MAX	0.030	Reduction of Area,%	73		N/A
Cr	0.02	MAX	0.20	Impacts test, Joule(ft-lb) (Charpy V-Notch)			
Ni	0.02	MAX	0.50	-29 °C (-20 °F)	138 (101.8)	MIN	27 (19.9)
Mo	0.01	MAX	0.30	-40 °C (-40 °F)	114 (84.1)	MIN	27 (19.9)
V	0.01	MAX	0.08				
Al			N/A	Fillet Weld Test	Satisfactory		
Cu	0.02	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.

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