



# Mill Test Certificate

**ESAB SeAH Corporation**

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Certificate No : 07-41-0520  
 Issued Date : 2007.06.19

Brand Name : COREWELD 111ULTRA

Customer Name : PACIFIC INDUSTRIAL SUPPLIES PTY LTD  
 P/O No. : 40043

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

Diameter Size : 1.2 MM  
 Weight : 675.0 KG  
 Lot Number : F506A7F133  
 Shielding Gas : 100% CO2

Type : E70T-9

<u>Chemical Compositions</u>		<u>Specification Requirements</u>		<u>Typical Mechanical Properties</u> As welded		<u>Specification Requirements</u> As welded	
C	0.05	MAX	0.18	<b>Tensile Test</b>			
Mn	1.40	MAX	1.75	Y.S.(0.2%) Mpa (Ksi)	520 (75.4)	MIN	400 (58.0)
Si	0.70	MAX	0.90	T.S. Mpa (Ksi)	592 (85.9)	MIN	480 (69.6)
S	0.009	MAX	0.030	Elongation(2"),%	29	MIN	22
P	0.014	MAX	0.030	Reduction of Area,%	68		N/A
Cr	0.03	MAX	0.20				
Ni	0.43	MAX	0.50	<b>Impacts test, Joule(ft-lb)</b> <b>(Charpy V-Notch)</b>			
Mo	0.01	MAX	0.30	-29 °C (-20 °F)	64 (47.2)	MIN	27 (19.9)
V	0.01	MAX	0.08				
Al			N/A	<b>Fillet Weld Test</b>	Satisfactory		
Cu	0.02	MAX	0.35	<b>Radiographic test</b>	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