

33541

2" XS WPB TEE

F.O. 134729  
3707



# INSPECTION CERTIFICATE

EN 10204 3.1 : 2004

AWAJI MATERIA (THAILAND) CO.,LTD.

81,MOO4, PRAKASA ROAD, TAMBOL BANGMUANG, AMPHUR MUANG  
SAMUTPRAKARN THAILAND 10270. Tel : (662)701-5226

ISO 9001 :2008 Manufacturing Company  
Certified by BV. Certificate No. TH004535

Material manufacturer QMS acc.  
PED 97/23/EC. Annex1. Par4.3/AD2000W0  
Certified by Lloyd's Register  
Certificate No. 50207/1

Purchaser : ALLIED FITTING CANADA

MADE FROM SEAMLESS STEEL PIPE

Date : MARCH 20, 2013

Certificate No. : T13-31155

Order No. 31212AAW/WPB/49		Job No. -		Product CARBON STEEL BUTT WELDING FITTINGS		Raw Material Pipe Maker NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)	
Inspection Standard ASME B16.9-07, ASME B16.25-07 ASTM A960-10 NACE MR-0175/ISO 15156-2-09, SS Region3 MR-0103-10		Material Standard ASTM A234-11a, WPB ASME SA234-10, WPB except nuclear usage CSA Z245.11-09, GR241 CAT. I -SS		Visual GOOD		Dimension GOOD	
Manufacturing No. (Heat code.) 33541		Product Code -		Material WPB		Article & Size XS TEE 2"	
				Quantity 800 Pcs.		Note.	
						Pipe Heat No. : J2KA328	
						*4 UT Inspection -	
						Magnetic Particle Test GOOD	

Specification	*1 Chemical Composition (%)																	*2 Mechanical Test			Hardness
	C	Si	*3 Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Ca	N	Al	C.E.	Y.S.	T.S.	E	
Min.	X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X100	X100	X100	X10000	X10000	x1000	X1000	X100	MPa		%	
Max.	-	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	415	25.5	
Heat No.	30	-	165	50	58	40	40	40	15	8	2	-	-	-	-	-	50	-	-	-	
J2KA328	L	20	21	65	25	8	1	2	6	1	0	0	0	10	3	13	32	-	-	-	
	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	329	484	57	

$$C.E. = C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$$

\*4 UT = Ultrasonic thickness inspection

- \*1 Equivalent for A234 WPB
- \*2 Y.S.= Yield Strength (0.2% offset), T.S. = Tensile Strength, E = Elongation (in 50mm)
- \*3 As per foot note D of ASTM A234 Table 1.
- L = Ladle Analysis, P = Product Analysis
- Weld repair is not applied to our products.
- Steel Making by Vacuum degassed, fully silicon aluminium killed & fine grain.

ELBOW / Forming temperature 850°C—945°C and cooled in still air  
TEE, REDUCER & CAP / Normalizing : 910°C

We hereby certify that the material described herein has been duly inspected and conforms to the standard as specified above.

Surveyor to

QA. GM. /Work Inspector S. MAEKAWA

AT-24(2)18