



Awaji

INSPECTION CERTIFICATE

AWAJI MATERIA (THAILAND) CO.,LTD.

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

Date : NOVEMBER 9, 2010

Purchaser : ALLIED FITTING CORP.

MADE FROM SEAMLESS STEEL PIPE

Certificate No. : T10-Y306

Order No.		Job No.		Product													Raw Material Pipe Maker					
92510NAW/WPB/1		-		CARBON STEEL BUTT WELDING FITTINGS													SUMITOMO METAL INDUSTRIES, LTD.					
Inspection Standard		Material Standard		Appearance	GOOD	Dimension	GOOD							*3								
ASME B16.9-07 ASTM A960-08a NACE MR-0175-03, MR-0103-05		ASTM A234-07 WPB ASME SA234-07 WPB except nuclear usage															M.T. GOOD					
Manufacturing No.	Product code	Material		Article & Size						Quantity		Note.										
OX532X		WPB		XXS		TEE		3"		35 Pcs.		"ALL FITTING MANUFACTURED BY AWAJI MATERIA (THAILAND) CO.,LTD. ARE PRODUCED FROM A106 GR.B SEAMLESS PIPE"										
Specification	Chemical Composition (%)																*1 Mechanical Test			Hardness		
	C	Si	*2Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Ca	N	Al	C.E.	Y.S.	T.S.		E	
	Min.	X100	X100	X1000	X1000	X100	X100	X100	X100	X100	X100	X100	X100	X10000	X10000	X1000	X100	MPa	%		HB	
Max.	-	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	415	30	-	
Pipe Charge No.	30	-	106	50	58	40	40	40	15	8	2	2	5	65	8	-	-	655	-	197		
J0L7368	12	26	132	10	3	2	2	11	1	0	0	1	2	17	3	26	37	304	464	52.2	132	
$C.E. = C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$																		Inspection Certificate : ACCORDING TO EN 10204. 3.1 : 2004			ISO 9001: 2008 Manufacturing Company Certified by BV, Certificate No. TH10000101	
*1 Y.S.= Yield Strength, T.S. = Tensile Strength, E = Elongation.				*3 UT = Ultrasonic thickness inspection.																		
*2 For each reduction of 0.01% below the specified carbon(C) Maximum, an increase of 0.06% manganese(Mn) above specified maximum will be permitted, up to a maximum of 1.35% as per foot note D of ASTM A234/A234M-07 Table 1.																						

ELBOW / Forming temperature 780°C - 930°C and cooled in still air
TEE, REDUCER & CAP / Normalizing : 900°C

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

**ALLIED FITTING
TRUE COPY OF
ORIGINAL MTR
SIGN**

Surveyor to

Chief of Inspection Section S.MAEKAWA

AT-24(2)12