



Awaji

INSPECTION CERTIFICATE

AWAJI MATERIA (THAILAND) CO.,LTD.

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

Date : JULY 8, 2010

Purchaser : ALLIED FITTING CORP.

MADE FROM SEAMLESS STEEL PIPE

Certificate No. : T10-7352

Order No.	Job No.	Product														Raw Material Pipe Maker									
33110AW/WPB/9	-	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 ASTM SA234-07 WPB except nuclear usage																				M.T. GOOD			
Manufacturing No.	Product code	Material	Article & Size											Quantity	Note.										
05557		WPB	XXS TEE 5"											30 PCS.	"ALL FITTING MANUFACTURED BY AWAJI MATERIA (THAILAND) CO.,LTD. ARE PRODUCED FROM A106 GRB SEAMLESS PIPE"										
Specification	Chemical Composition (%)																*1 Mechanical Test			Hardness					
	C	Si	*2 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		%	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				
J9K8382	11	24	135	11	4	2	2	12	1	0	0	2	0	1	4	30	36	299	447	42	128				

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

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.

Surveyor to

Chief of Inspection Section S.MAEKAWA

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

AT-24(2)12