

60755

Awaji

ASK

INSPECTION CERTIFICATE

EN 10204 3.1 : 2004

AWAJI MATERIA (THAILAND) CO.,LTD.

81.MO04, PRAKASA ROAD, TAMBOL BANGMUANG, AMPHUR MUANG
SAMUTPRAKARN THAILAND 10270, Tel : (882)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

Date : DECEMBER 12, 2013

Certificate No. : T13-Z0465

Purchaser : FORGINGS FLANGES & FITTINGS, LLC.

MADE FROM SEAMLESS STEEL PIPE

Order No. 174287 WPL6/26		Job No. -		Product CARBON STEEL BUTT WELDING FITTINGS														Raw Material Pipe Maker NIPPON STEEL & SUMITOMO METAL CORPORATION (JAPAN)					
Inspection Standard ASME B16.9-12, ASME B16.25-07 ASTM A960-10 NACE MR-0175/ISO 15156-09 MR-0103-10		Material Standard ASTM A420-10a, WPL6 ASME SA420-13, WPL6 except nuclear usage		Visual GOOD				Dimension GOOD				*5 UT Inspection -		Magnetic Particle Test -		Pipe Heat No. : J3L6771							
Manufacturing No. (Heat code.) 3X254-1	Product Code -	Material WPL6	Article & Size STD REDUCER CONCENTRIC 5" x 4"	Quantity 12 Pcs.	Note.															①	④	⑤	
Specification	*1 Chemical Composition (%)																	*2 Mechanical Test			Hardness	Impact Test	
Min.	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	B	Ca	N	Al	C.E.	Y.S.	T.S.	E	HB	J	
Max.	X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X100	X100	X100	X10000	X10000	X1000	X1000	X100	MPa	%		HB	J	
Heat No.	30	40	135	35	40	40	40	30	12	8	2	-	-	-	-	-	-	240	415	27	-	(-45°C)	
J3L6771	L	11	28	133	11	2	2	2	12	1	0	0	2	1	21	4	35	36	-	655	-	197	*3 5
	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	336	467	41.2	140	*4 E 73.30 E 136.16 E 137.12 A 115.53	
C.E. = C + $\frac{Mn}{6}$ + $\frac{Cr+Mo+V}{5}$ + $\frac{Ni+Cu}{15}$																		*3 Size of Specimen A E *4					
*1 Equivalent for A420 WPL6																		F. 10.0 by 10.0 17.6 13.6 E = Each Test					
*2 Y.S.= Yield Strength (0.2% offset), T.S. = Tensile Strength, E = Elongation (in 50mm)																		7. 10.0 by 7.5 13.6 10.8 A = Average Value					
L = Ladle Analysis, P = Product Analysis																		5. 10.0 by 5.0 9.5 7.0					
Weld repair is not applied to our products.																		2. 10.0 by 2.5 5.4 4.1					
Steel Making by Vacuum degassed, fully silicon aluminium killed & fine grain.																							

Country of Melt : JAPAN

ELBOW, TEE, REDUCER & CAP / Normalizing : 910°C

AT-24(2)20

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

Material complies with ASTM A/SA234 WPB (latest Edition)

Surveyor to

QA. GM. /Work Inspector S. MAEKAWA