



AWAJI MATERIA (THAILAND) CO.,LTD.

INSPECTION CERTIFICATE

EN 10204 3.1 : 2004

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ISO 9001 :2015 Manufacturing Company
Certified by BV. Certificate No. TH013595

Material manufacturer QMS acc.
PED 2014/68/EU. Annex1. Par4.3/AD2000-Merkblatt W0
Certified by Lloyd's Register
Certificate No. 50207/1

Date : APRIL 26, 2021

Certificate No. : T21-41535/1

Purchaser : DODSON GLOBAL

Order No.		Job No.		Product														MADE FROM SEAMLESS STEEL PIPE				
283865-00/22		-		CARBON STEEL BUTT WELDING FITTINGS																		
Inspection Standard		Material Standard		Visual		Dimension				*4 UT Inspection		Magnetic Particle Test										
ASME B16.9-18, ASME B16.25-17 ASTM A960-20 NACE MR-0175/ISO 15156-15 MR-0103-15		ASTM A234-19, WPB ASME SA234-19. Sec. II, Part A. except nuclear usage		GOOD		GOOD				-		GOOD										
Manufacturing No. (Heat code.)	Product Code	Material	Article & Size											Quantity	Note.							
145M86		WPB	STD TEE 3"											730 Pcs.								
Specification	*1 Chemical Composition (%)																	*2 Mechanical Test			L	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	X10000	X10000	x1000	X1000	X100		MPa	%	HB	
Max.	-	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	415	25.5	-	
Heat No.	30	-	135	50	58	40	40	40	15	8	2	-	5	-	-	-	50	-	-	-	197	
19106273	L	10	27	125	10	2	5	2	6	3	0	0	1	2	34	4	36	33	346	460	43	127
	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121
$C.E. = C + \frac{Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cu}{15}$																		*4 UT = Ultrasonic thickness inspection				
<p>*1 Equivalent for A234 WPB *2 Y.S.= Yield Strength (0.2% offset), T.S. = Tensile Strength, E = Elongation (in 50mm), L = Longitudinal, T = Transverse *3 As per foot note D of ASME SA234 Table 1. L = Ladle Analysis, P = Product Analysis Material is free mercury contamination and no weld repair was performed Killed steel & fine grain.</p>																						

ELBOW / Forming temperature 850°C-945°C and cooled in still air
TEE, REDUCER & CAP / Normalizing (cold Forming) : 910°C (Holding Time : (Nominal Wall Thickness/1mm) x 1.5 min.)
*We certify that the fitting was manufactured, sampled, tested and inspected in accordance with the specification and was found to meet the requirements.

Surveyor to

AT-24(2)29

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