

ORIGINAL

MATERIAL TEST & INSPECTION CERTIFICATE



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Purchaser: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project No: \_\_\_\_\_  
 Po No: 6263ST

According to  
 DIN 50049 3.1 / EN 10204 3.1 / ISO 10474 3.1

SPEC. FOR MATERIAL: ASTM A234 WPB-22 & ASME SA234 WPB/ASME BPCV(A-2023)  
 SPEC. FOR INSPECTION: ASME B16.9 (Wrought Borewelding Fittings-2018)  
 STARTING MATERIAL: CARBON STEEL SEAMLESS PIPE

No	SEQ/LINE/ITEM NO	ITEM	SCH	NPS	Qty	HCN	H/T	NDE: PMI	Remark
1	SRT2012	TEE(RED)	STD	20 x 12	6	A3607	SR		
2	SRT2016	TEE(RED)	STD	20 x 16	10	A3607	SR		
3	SS901.5	90D ELBOW SR	STD	1-1/2	350	A3624	A		
4	X4501.25	45D ELBOW LR	XH	1-1/4	50	A3630	A		
5	X4512	45D ELBOW LR	XII	12	14	A3992	A		
6	XLRB01.0	180D ELBOW LR	XH	1	60	A3624	A		
7	XS901.0	90D ELBOW SR	XH	1	50	A6068	A		
8	XX903.0	90D ELBOW LR	XXH	3	20	A7063	A		

No	HCN	CHEMICAL COMPOSITION (wt.%)											TENSILE TEST					IMPACT TEST (ft-lb)		Hydro Test (MPa)	
		SPEC.		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Y.S	T.S	EL	RA	Hardness	Temp. (°C)		Size (2in-v)
		MIN	MAX	100	100	100	1000	10000	100	100	100	100	100	Mpa	Mpa	%	%	HBW	Min		Ave
1	A3607	L	19	27	95	12	1	11	12	3	11	0	365	522	34.5		151/156				
2	A3607	L	19	27	95	12	1	11	12	3	11	0	365	522	34.5		151/156				
3	A3624	L	16	26	93	16	5	17	16	4	19	0	375	521	46.0		140/143				
4	A3630	L	16	27	95	9	3	12	19	6	17	0	365	512	48.0		132/137				
5	A3992	L	20	27	56	17	5	1	3	1	4	1	275	457	30.5		155/159				
6	A3624	L	16	26	93	16	5	17	16	4	19	0	375	521	46.0		140/143				
7	A6068	L	17	26	96	14	3	2	5	1	1	0	397	534	50.0		135/131				
8	A7063	L	21	22	42	16	13	1	3	0	1	0	275	475	29.0		136/131				

Note:  
 1) L: LADLE ANALYSIS, P: PRODUCT ANALYSIS, HCN: Heat Control Number  
 2) No. FOR EACH DIRECTION OF 90°, BELOW THE SPECIFIED CARBON MAXIMUM AN INCREASE OF 0.006% MAXIMUM ABOVE THE SPECIFIED MAXIMUM WILL BE PERMITTED UP TO A MAXIMUM OF 1.68%  
 3) ASME SA234 WPB/ASME BPCV(A-2023) TABLE 1  
 4) MADE IN SOUTH KOREA

REVIEWED BY: \_\_\_\_\_ WITNESSED BY: \_\_\_\_\_  
 MANAGER OF QUALITY