

MATERIAL TEST & INSPECTION CERTIFICATE



CUSTOMER: INDUSTRIAL VALCO
PROJECT NAME: N/A

According to

DIN 50049 3.1 / EN 10204 3.1 / ISO 10474 3.1

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PURCHASE ORDER NO	SK022HA	SPEC. FOR MATERIAL	ASTM/ASME A5A234WPBS-191Z1ED	CERTIFICATE NO.	QCLH2022080502
JT NO.	N/A	SPEC. FOR INSPECTION	ASME B16.9	DATE OF ISSUE	2022.06.24
STARTING MATERIAL	SEAMLESS PIPE	SKB NO.	2022030203	VISUAL & DIMENSION	SATISFACTORY

NO.	SEQ./LINE/ITEM NO	DESCRIPTION	QTY	HEAT NO.	MFG ID NO.	PO/CO/DEF/TA/AG NO
4	90D ELBOW(L)	XX-S 3" B.W SMLS Black	22	3-36051	3-36051	1AF03:SK

CHEMICAL COMPOSITION(%) (L: LADLE P: PRODUCT)

HEAT NO.	STD.	SPEC.	CHEMICAL COMPOSITION(%)											C.E	SPEC.	TENSILE TEST									
			MIN	MAX	P	S	NI	Cr	Mo	Cu	V	Nb	N			Al	B	Zr	Fe	TI	Y.S 0.2% offset	T.S	EL.	RA	
3-36051	L	MAX	0.30	1.06	0.050	0.058	0.40	0.40	0.15	0.40	0.08														
		L	0.19	0.25	0.84	0.012	0.003	0.01	<0.01	0.01	<0.001														
		P																							

IMPACT TEST AT NO.	TEST TEMP.	SIZE OF SPECIMEN(mm)	ABSORBED ENERGY			LATERAL EXPANSION			PERCENT SHEAR			HARDNESS HBW		HEAT TREATMENT	NORMALIZED. 870°C, 40Min., 1hr	N.D.E	MEMO		
			STD. / VALUE	AVG.	AVG.	STD. / VALUE	AVG.	STD. / VALUE	AVG.	MIN	MAX								
3-36051		BIM																	
			H.A.Z																
			WIM																
			BIM																
			H.A.Z																

JACE MR0175 / ISO15156-2015 / MR0103-2015
to Mercury, No Weld Repair.

WE CERTIFY THIS MATERIAL HAS BEEN MANUFACTURED AND EXAMINED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE SPECIFICATION AND THE RESULTS OF ALL EXAMINATION ARE ACCEPTABLE.

REVIEWED BY
WITNESSED BY

S. Y. Kim

CHIEF QUALITY OFFICER (S.Y.KIM)

TE-8903

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