

# MATERIAL TEST & INSPECTION CERTIFICATE

 **SUNGKWANG BEND CO., LTD.(SKB)**

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CUSTOMER: ALLIED FITTINGS

PROJECT NAME: N/A

According to

DIN 50049 3.1 / EN 10204 3.1 / ISO 10474 3.1

PURCHASE ORDER NO.	PO70408GSB	SPEC. FOR MATERIAL	ASTM A234WPB-W 06a, ASME SA234WPB-W 04ED	CERTIFICATE NO.	QCLJ2008110459
PJT JOB NO.	N/A	SPEC. FOR INSPECTION	ASME B16.9	DATE OF ISSUE	2008.11.07
STARTING MATERIAL	STEEL PLATE	SKB JOB NO.	2008071118	VISUAL & DIMENSION	SATISFACTORY

NO.	SEQ/LINE/ITEM NO	DESCRIPTION	QTY	HEAT NO.	MFG ID NO.	MILL MAKER	POR/CODE/TAG NO
43		REDUCING TEE X-S*X-S 30"X20" B.W WELDED Black	2	SA96034	SA96034	POSCO	

CHEMICAL COMPOSITION(%) (L : LADLE, P : PRODUCT)																		TENSILE TEST								
HEAT NO.	STD.	SPEC.	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	N	Al	B	W	Sn	Ti	C.E	SPEC.	Y.S	T.S	EL.	RA	
																						KS.	KS.	%	%	
SA96034	L	MIN	0.25	0.10	0.20																	MIN	35.0	60.0	30.0	
		MAX	0.25	0.10	0.20	0.050	0.058	0.40	0.40	0.15	0.40	0.08											MAX		85.0	
SA96034	L	P	0.16	0.27	1.12	0.017	0.003	0.03	0.02	<0.01	0.01	0.004											42.6	73.5	36.0	
	L	P																								
	L	P																								

HEAT NO.	IMPACT TEST	TEST TEMP.	SIZE OF SPECIMEN(mm)	ABSORBED ENERGY STD./		LATERAL EXPANSION STD./		PERCENT SHEAR STD./		HARDNESS HB		HEAT TREATMENT	NORMALIZED 900°C, 30min., "A"			
				VALUE	AVE.	VALUE	AVE.	VALUE	AVE.	MIN	197		N.D.E	RT.MT GOOD	PMI	N/A
SA96034			B/M							MAX	148	N.D.E	FLATTENING TEST	N/A	**MEMO	
													BENDING TEST	N/A		
														HYDROSTATIC TEST		N/A
														CORROSION TEST		N/A
														GRAIN SIZE TEST		N/A
			H.A.Z													
			W/M													
			H.A.Z													
			W/M													

MANUFACTURED IN ACCOR. TO DIN 50049-3.1 & MEET NACE MR0175-2003 STANDARD SPEC.  
 R.T REPORT NO. : HIE-BS-SKALL-RT-08-11-017

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 : \_\_\_\_\_

  
 QM DIV. SENIOR MANAGING DIRECTOR

SKE-8903

ALLIED FITTING  
 TRUE COPY OF  
 ORIGINAL MTR  
 SIGN: 