

# MATERIAL TEST & INSPECTION CERTIFICATE



1720, Songjeong-Dong, Gangseo-Ku, Busan, Korea

TEL : 82-051-3300-450

FAX : 82-051-3300-335

http://www.skbend.com

CUSTOMER: ALLIED FITTINGS

PROJECT NAME: N/A

According to

DIN 50049 3.1 / EN 10204 3.1 / ISO 10474 3.1

PURCHASE ORDER NO.	12910SB	SPEC. FOR MATERIAL	ASTM A234WPB-S 07, ASME SA234WPB-S 07ED	CERTIFICATE NO.	OCLP2010070497
PJT NO.	N/A	SPEC. FOR INSPECTION	ASME B16.9	DATE OF ISSUE	2010.06.23
STARTING MATERIAL	SEAMLESS PIPE	SKB NO.	2010013005	VISUAL & DIMENSION	SATISFACTORY

NO.	SEQLINE/ITEM NO	DESCRIPTION	QTY	HEAT NO.	MFG ID NO.	MILL MAKER	POR/CODE/TAG NO
83		CON REDUCER      XX-S*XX-S      3"*2"      B.W SML'S      Black	120	1-77331	1-77331	JFE STEEL	

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	
																						KSI	KSI	%	%	
1-77331		MIN		0.10	0.29																	MIN	35.0	80.0	30.0	
		MAX	0.25		1.06	0.050	0.058	0.40	0.40	0.15	0.40	0.08										MAX		85.0		
		L	0.13	0.21	0.88	0.015	0.005	0.01	0.03	<0.01	0.02	<0.005											45.3	88.8	42.0	
		P																								
		L																								

HEAT NO.	IMPACT TEST	TEST TEMP.	SIZE OF SPECIMEN(mm)	ABSORBED ENERGY		LATERAL EXPANSION		PERCENT SHEAR		HARDNESS HB		HEAT TREATMENT		NORMALIZED. 900°C. 40Min. "Air"		
				STD. /	VALUE	AVE.	STD. /	VALUE	AVE.	STD. /	VALUE	AVE.	MIN	MAX	N.D.E	N/A
1-77331				B/M												
				H.A.Z												
				W/M												
				B/M												
				H.A.Z												

- MANUFACTURED IN ACCOR. TO DIN 50049-3.1 & MEET NACE MR0175-2003 STANDARD SPEC.

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-9003

ALLIED FITTING  
TRUE COPY OF  
ORIGINAL MTR  
SIGN