

57871

MATERIAL TEST & INSPECTION CERTIFICATE



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CUSTOMER: FORGINGS FLANGES & FITTINGS INC.

PROJECT NAME: N/A

According to

DIN 50049 3.1 / EN 10204 3.1 / ISO 10474 3.1

PURCHASE ORDER NO.	174597	SPEC. FOR MATERIAL	ASTM/ASME A/SA234WPB-S 11/10ED WITH 11ADD	CERTIFICATE NO.	QCLH2013110332
PJT NO.	N/A	SPEC. FOR INSPECTION	ASME B16.9	DATE OF ISSUE	2013.10.07
STARTING MATERIAL	STEEL PLATE	SKB NO.	2013071802	VISUAL & DIMENSION	SATISFACTORY

NO.	SEQ/LINE/ITEM NO	DESCRIPTION						QTY	HEAT NO.	MFG ID NO.	POR/CODE/TAG NO
1		CAP	S40	18"	B.W SMLS	Black	8	SF30250	SF30250		
2		CAP	S40	20"	B.W SMLS	Black	10	SF30250	SF30250		
3		CAP	S40	24"	B.W SMLS	Black	20	SB72805	SB72805		
4		CAP	S80	10"	B.W SMLS	Black	80	SF30250	SF30250		

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	Zr	Fe	Ti	C.E	SPEC.	Y.S 0.2% offset		T.S	EL.	RA
																						KSI	KSI	%	%	
SB72805	L	MIN	0.10	0.29																		MIN	35.0	60.0	30.0	
		MAX	0.35	1.06	0.050	0.058	0.40	0.40	0.15	0.40	0.15	0.08											MAX		95.0	
SF30250	L		0.14	0.24	1.05	0.016	0.004	0.01	0.02	0	0.02	0.001											42.1	69.3	40.0	
		P																								
SF30250	L		0.14	0.24	0.80	0.014	0.004	0.01	0.02	0	0.01	0											43.6	67.5	38.0	
		P																								

IMPACT TEST	HEAT NO.	TEST TEMP.	SIZE OF SPECIMEN(mm)	ABSORBED ENERGY		LATERAL EXPANSION		PERCENT SHEAR		HARDNESS HB		HEAT TREATMENT	NORMALIZED. 900°C, 1Hr., "A"		
				STD. I	AVE.	STD. I	AVE.	STD. I	AVE.	MIN	197		PMI	N/A	N.D.E
SB72805			B/M								HB	137	FLATTENING TEST	N/A	**MEMO
			H.A.Z										BENDING TEST	N/A	
			W/M											HYDROSTATIC TEST	
SF30250			B/M								HB	142	CORROSION TEST	N/A	
			H.A.Z											GRAIN SIZE TEST	N/A
			W/M											HIC TEST	N/A

MATERIAL MEETS THE REQUIREMENTS OF NACE MR0175-2009 & 0103-2012
 PED 97/23/EC / MATERIAL ALL MANUFACTURED IN KOREA.
 FREE OF MURCURY & FREE OF RADIATION

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

*본 검사증명서에 명기된 규격용외 사용자 안전상 문제가 발생할 수 있으며, 검사증명서 위 변조시 사문서 위조(형법231조)로 불이익을 당하실 수 있습니다.