

F107601

PO#: 274 Pack#: 134454 Order#: 857460 Lot#: skb.611800 Desc: 8 STD SMLS TEE AISA234 WPB SKB

MATERIAL TEST & INSPECTION CERTIFICATE															SUNGWANG BEND CO., LTD.(SKB) 26, Noksinsandan 262-ro, Gangseo-Gu, Busan, Korea TEL : 82-051-3300-450 FAX : 82-051-3300-335 http://www.sk bend.com									
CUSTOMER: FORGINGS FLANGES & FITTINGS INC.										According to					② ③ ④ ⑤									
PROJECT NAME: N/A										DIN 50048 3.1 / EN 10204 3.1 / ISO 10474 3.1														
PURCHASE ORDER NO.		173502			SPEC. FOR MATERIAL			ASTM/A516 A5234 WPB-S 07/07ED			CERTIFICATE NO.		OCLH2013U30043											
PJT NO.		N/A			SPEC. FOR INSPECTION			ASME B16.9			DATE OF ISSUE		2013.02.28											
STARTING MATERIAL		SEAMLESS PIPE			SKB NO.			2012082503			VISUAL & DIMENSION		SATISFACTORY											
NO.	SEQ/LINE/ITEM NO	DESCRIPTION						QTY	HEAT NO.		MFG ID NO.	POR/CODE/TAG NO												
4		STRAIGHT TEE		STD	8"	B.W SMLS	Black	50	611800		611800													
9		REDUCING TEE		STD*XS	4"*2"	B.W SMLS	Black	125	974399		974399													
CHEMICAL COMPOSITION(%) (L: LADLE, P: PRODUCT)																								
HEAT NO.	STD.	SPEC.	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	Al	B	Zr	Fe	Ti	CE	SPEC.	Y.8 0.2% offset	T.S	EL.	RA
	MIN	MAX	0.10	0.29																MIN	35.0	80.0	1"	%
	MAX	0.30		1.06	0.058	0.033	0.40	0.40	0.15	0.40	0.08									MAX		85.0		
611800	L		0.16	0.24	0.96	0.008	0.004	0.03	0.04	0.01	0.07	0.010									47.5	64.7	45.0	
	P																							
974399	L		0.18	0.18	0.78	0.010	0.003	0.06	0.09	0.02	0.10	0.0									44.6	71.4	38.0	
	P																							
IMPACT TEST	HEAT NO.	TEST TEMP.	SIZE OF SPECIMEN(mm)	ABSORBED ENERGY		LATERAL EXPANSION		PERCENT BREAK		HARDNESS HB		HEAT TREATMENT	NORMALIZED, 900°C, 30Min, "A"											
				VALUE	AVE.	VALUE	AVE.	VALUE	AVE.	MIN	MAX		MIN	R.D.E	M.T:GOOD									
	611800		EM								197	PM	N/A											
			HAZ										FLATTENING TEST	N/A										
			VM										BENDING TEST	N/A										
			EM										HYDROSTATIC TEST	N/A										
	974399		HAZ										CORROSION TEST	N/A										
			VM										GRAN SIZE TEST	N/A										
													HIC TEST	N/A										
MATERIAL MEETS THE REQUIREMENTS OF NACE MR0175 & 0103 PED 97/23/EC MATERIAL ALL MANUFACTURED IN KOREA.										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.														
<input type="checkbox"/> REVIEWED BY : _____ <input type="checkbox"/> WITNESSED BY : _____										 QM DIV. SENIOR MANAGING DIRECTOR														

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