



INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509731-A)

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Quality Management System is certified under ISO 9001. Approval No.: 0047996
 PED 2014/08/EU Annex 1 Clause 4.3
 Cert. No.: 0038/PED/NAUM/0910070/1

Stock 4709897 08/17/2020
**MATCONOR MN90LR08 2IN LR 90
 BW A234 ELBOW**

WROUGHT CARBON STEEL BUTTWELDING FITTINGS
 INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 134870-05
 Date : 29-May-2020

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for inspection				
70560	E000015256	Seamless Pipe	ASTM A234-18a WPB / ASME SA234 -17 WPB NACE MR0103-12/ NACE MR0175/ISO15156-15*										ASME B16.9 - 1B / ASTM A960 - 19				
Batch No.	Product & Size		Quantity (pcs)		Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing									
SE706E	2" x 1 1/2" STD ECC RED		60		GOOD	GOOD	C & S	N.A									
X104	2" 90 DEG LR STD ELBOW		1965		GOOD	GOOD	H	N.A									
WG401	2" 90 DEG LR STD ELBOW		735		GOOD	GOOD	H	N.A									
WC506MT	6" x 4" STD RED TEE		200		GOOD	GOOD	C & S	GOOD									
MM101	3" 90 DEG SR STD ELBOW		13		GOOD	GOOD	H	N.A									
Specification	Chemical Composition (%)												Tensile Test ¹			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E ²	(HB)	
	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000		x100	(KSI / MPa)	(%)	1	2	
Min	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	-	
Max	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
SE706E	19	19	44	18	8	3	5	1	1	2	< 0.10	28	355	456	32.6	132	133
X104	13.3	20.4	74	17	3	2.6	4.7	4.3	7.9	4	< 0.10	28	363	476	39.4	135	137
WG401	14	15	78	15	6	2	4	2	3	3	< 0.10	29	336	466	36.8	137	135
WC506MT	20	23	39	16	9	5	12	1	16	0	< 0.10	31	400	511	30.2	138	136
MM101	16	22	49	23	3	5	7	1	8	0	< 0.10	27	356	523	27.7	130	123

WE CERTIFY THAT ALL PRODUCTS WERE MANUFACTURED, SAMPLED, TESTED, AND INSPECTED SOLELY BY THE MANUFACTURER LISTED AT THE ADDRESS ABOVE IN ACCORDANCE WITH INDICATED SPECIFICATION AND FOUND TO MEET REQUIREMENTS. MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION.
 TENSILE REQUIREMENT: CONFORMS TO ASTM A370 STANDARD. LONGITUDINAL DIRECTION, GAUGE LENGTH 2" (50mm)

* FULLY KILLED
 * HARDNESS ACCORDING TO NACE MR0103/ NACE MR0175/ISO15156

NOTE:
 C: Cold formed at temperature below 620°C
 S: Stress relieved in temperature between 595°C - 690°C and cooled in still air.
 H: Hot formed in temperature between 620°C - 980°C and cooled in still air.
 N: Normalised at 910°C
 Q: Heated to 910°C and quench in water.
 T: Temper between 590°C - 690°C.



Quality Assurance Manager

¹: YS = Yield strength TS = Tensile strength E = Elongation
²: For thickness above 7.94 mm, the minimum elongation value, E is 30. Else, E = 48t + 15, where t = specimen thickness. in
 Made in Malaysia

2" STD LR 90 WELD ELL
Heat #: WG401