



INSPECTION CERTIFICATE

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

LOT 13258 & 13259, Jalan Haji Abd. Manan,
Off Jalan Meru, 42200 Kapar, Selangor, Malaysia.

Tel: 603-3393 1633 Fax: 603-3393 1733 E-mail: info@pantechsteel.com



Quality Management System is certified under ISO 9001. Approval No.: 0047996
PED 2014/65/EU Annex 1 Clause 4.3
Cert. No.: 0343/PED/MUM/0810070/1

Stock 4709897



**MATCONOR MN90LR08 2IN LR 90
BW A234 ELBOW**

Purchaser :

WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 136615-01

Date : 11-Nov-2021

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection				
71143-3	E000016337	Seamless Pipe	ASTM A234 -19 WPB / ASME SA234 -21 WPB NACE MR0103-15/ NACE MR0175/ISO15156-15*										ASME B16.9 - 18 / ASTM A960 - 20				
Batch No.	Product & Size		Quantity (pcs)	Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing										
YC401	2" 90 DEG LR STD ELBOW		470	GOOD	GOOD	H	N.A										
YC603	4" 90 DEG LR STD ELBOW		544	GOOD	GOOD	H	N.A										
YD601	5" 90 DEG LR STD ELBOW		120	GOOD	GOOD	H	N.A										
YC803	8" 90 DEG LR STD ELBOW		148	GOOD	GOOD	H	N.A										
YD110	12" 90 DEG LR STD ELBOW		38	GOOD	GOOD	H	N.A										
Specification	Chemical Composition (%)												Tensile Test **			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E ²	(HB)	
Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000		x100	(KSI / MPa)	(%)			
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	-	
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
YC401	20	21	41	13	6	1	3	0	3	0	< 0.10	28	322	471	34.4	133	135
YC603	14	18	82	12	5	2	7	1	5	3	< 0.10	30	332	430	34.8	132	138
YD601	20	18	40	15	7	1	5	1	4	5	< 0.10	28	394	439	37.8	131	137
YC803	18	22	39	12	4	2	5	0	11	4	< 0.10	27	331	431	30.4	132	135
YD110	20	25	84	15	6	0	2	0	1	4	< 0.10	35	332	441	34.4	131	136

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.

MT: Magnetic Particle Testing

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 A/SA234 WPB BW LR 90 ELL B16.9

Heat # YC401