SolidBend Fittings & Flanges Sdn. Bhd. (947371-U)
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42500 Daerah Kuala Langat, Selangor Darul Ehsan, Malaysia
Tel : (603) 3132 1108 (Hunting Line) Fax : (603) 3132 1103
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Cert. No KLR 6016084

INSPECTION CERTIFICATE

EN 10204/3.1

CERTIFICATE NO : SBS-18143
DATE : 02/02/2018
D.O NO. :
INV. NO. : SB1267
PAGE NO. : 1 OF 1

CUSTOMER : NORCA INDUSTRIAL COMPANY LLC
P.O NO. : P/O 100/005169

PRODUCT SPECIFICATION : ASME/ASTM SA/A 234-WPB-2013, ASME/ANSI B16.9 -2012, NACE MR0-175/ISO 15156
MADE FROM SEAMLESS PIPE

ITEM NO.	HEAT CODE NO. (HCN)	MATERIAL DESCRIPTION	MATERIAL GRADE	QTY	PIPE/ PLATE HEAT NO.	CHEMICAL COMPOSITION %											MECHANICAL PROPERTIES				
						C	Mn	P	S	Si	Cr	Mo	Ni	Cu	V	CE	TENSILE (N/mm²)	YIELD (N/mm²)	ELONG. %	HARDNESS HB	IMPACT TEST @ TEMP 1st 2nd 3rd AVE
						max 0.25	1.06	0.05	0.058	-	0.40	0.15	0.40	0.40	0.08		-	-	-	197	
						min -	0.29	-	-	0.10	-	-	-	-	-		415	240	30		
2	A5A430	1 1/4" 90 D ELBOW LR XH/XS/80	WPB	550	3G3395	0.190	0.490	0.019	0.011	0.210	0.100	0.050	0.100	0.070	0.020	0.317	470	277	34.5	125, 127	

Note: For each reduction of 0.01% below the specified carbon maximum, an increase of 0.06% manganese above the specified maximum will be permitted, up to a maximum of 1.35%.

REMARKS:
Surface Inspection : Satisfactory
Dimensional Inspection : Satisfactory
Magnetic Particle Test : N/A
Heat Treatment : Hot formed between 620ºC and 980ºC. Air cooled (applicable for elbows only)
: Normalized @ 910 ºC

Marking as per MSS SP-25-2008.
Tensile requirements confirm to ASTM A370.
This products meets the specification requirements and is free from Mercury and Radioactive contamination.
No weld repair was performed and all product are free of weld repair.
Magnetic Particle Test is (applicable for Tee only).

"No China finished were used for these butt weld fittings."

We hereby certify that the material described herein has been made in accordance with the above specification and also with the requirements called for by the above order and is that which has been tested to the satisfaction of the Inspector.

Reviewed and Approved by:

QA/QC MANAGER

Third Party / Customer Reviewed / Witnessed by: