



INSPECTION CERTIFICATE

Customer : SEAMLESS CARBON STEEL BUTT WELD
 Product : FITTINGS

CHUP HSIN ENTERPRISE CO., LTD.
 17, TUNG LI ROAD, HSIAO KANG DISTRICT,
 KAOHSIUNG CITY, TAIWAN, R.O.C.

Certificate No : 00900012-0101
 Order No : 7017300/250644-00

Spec : ASTM A234-19/ASME SA234-19 WPB
 ANSI/NACE MR0175/ISO 15156-2:2015
 ANSI/NACE MR0109/ISO 17945-1:2015
 CSA Z245.11-17 Gr 241 Cat I SS/EN 10204-3.1

ACCORDANCE WITH EN 10204-3.1
 TEL:(07)831-9157
 FAX:(07)821-7500, 831-2942

Date : 2020/08/05

Raw Material		Specification for Inspection				Visual Inspection				Dimensional Inspection																																																																																																								
ASTM A106 GR.B/GREEN PIPE FOR A333-6		ASME B16.9-2018				PASS				PASS																																																																																																								
Item	Description	Quantity	Heat ID	Heat No	Raw Material Certificate No.	NDE Test Temp	Impact Test		Ave.	REMARK																																																																																																								
							Size of specimen	Charpy V-Notch Impact Value																																																																																																										
1	90 E L/R STD	24"	25	0800	50800H	BAOSTEEL BGSQG2005190011600																																																																																																												
<table border="1"> <thead> <tr> <th rowspan="2">Specification</th> <th colspan="10">Chemical Composition%</th> <th colspan="3">Tensile Test</th> <th rowspan="2">Hardness Test</th> <th rowspan="2">Heat Treatment</th> <th rowspan="2">REMARK</th> </tr> <tr> <th>C</th> <th>SI</th> <th>Mn</th> <th>P</th> <th>S</th> <th>CU</th> <th>NI</th> <th>Cr</th> <th>Mo</th> <th>V</th> <th>Nb</th> <th>CE</th> <th>YS</th> <th>T.S</th> <th>E</th> </tr> </thead> <tbody> <tr> <td></td> <td>X100</td> <td>X100</td> <td>X100</td> <td>X1000</td> <td>X1000</td> <td>X100</td> <td>X100</td> <td>X100</td> <td>X1000</td> <td>X1000</td> <td>X100</td> <td>P.S.I</td> <td>P.S.I</td> <td>%</td> <td>HB</td> <td></td> <td></td> </tr> <tr> <td>Min.</td> <td></td> <td>10</td> <td>29</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>35000</td> <td>60000</td> <td>30</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Max.</td> <td>22</td> <td></td> <td>135</td> <td>50</td> <td>58</td> <td>40</td> <td>40</td> <td>15</td> <td>80</td> <td>20</td> <td>50</td> <td></td> <td></td> <td></td> <td>197</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>16</td> <td>15</td> <td>87</td> <td>13</td> <td>6</td> <td>1</td> <td>1</td> <td><1</td> <td><1</td> <td>1</td> <td>31</td> <td>41611</td> <td>70401</td> <td>35.7</td> <td>135</td> <td>620°C TO 980°C HOT FORMED</td> <td></td> </tr> </tbody> </table>											Specification	Chemical Composition%										Tensile Test			Hardness Test	Heat Treatment	REMARK	C	SI	Mn	P	S	CU	NI	Cr	Mo	V	Nb	CE	YS	T.S	E		X100	X100	X100	X1000	X1000	X100	X100	X100	X1000	X1000	X100	P.S.I	P.S.I	%	HB			Min.		10	29									35000	60000	30				Max.	22		135	50	58	40	40	15	80	20	50				197			1	16	15	87	13	6	1	1	<1	<1	1	31	41611	70401	35.7	135	620°C TO 980°C HOT FORMED	
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C.E. = C+Mn / 6 + (Cr+Mo+V)/5 + (Ni+Cu)/15
 We hereby certify that the material herein described has been manufactured, sampled, tested and inspected in accordance with, and was found to meet, the requirements of above specifications and purchaser's order.

K. Y. Tsai
 Chief of Quality Assurance Section