



INSPECTION CERTIFICATE

ACCORDANCE WITH EN 10204-3.1

CHUP Hsin ENTERPRISE CO., LTD.

17, TUNG LI ROAD, HSIAO KANG DISTRICT,
KAOSHUNG CITY, TAIWAN, R.O.C.

TEL:(07)831-9157 FAX:(07)821-7500, 831-2942

Certificate No : 00800045-0601
Order No : 7015998225200-00

Date : 2019/08/02

Customer : SEAMLESS CARBON STEEL BUTT WELD FITTINGS
Product : ASTM A234-2018 / SA 234 WPB-2017
Spec : ASTM A234-2018 / SA 234 WPB-2017
CSA Z245.11-17 Gr 241 Cat I/(standard)
EN10204-3.1/NACE ANSI/NACE MR0175/
ISO 15156-2:2015/MR0103-16

Item	Raw Material	Description	Quantity	Heat ID	Heat No	Raw Material Certificate No.	NDE Test Temp	Size of specimen	Charpy V-Notch Impact Value J	Ave.	REMARK																																																																																																					
												Specification for Inspection	Visual Inspection	Dimensional Inspection																																																																																																		
1	ASTM A106 GR.B/GREEN PIPE FOR A333-6	90 E/L/R XS	16"	40	B792	40792H	BAOSTEEL BGSQG19050700005800																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="11">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>Specif-ication</th> <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>C.E</th> <th>Y.S</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>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> </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></td> <td>35000</td> <td>60000</td> <td>30</td> <td>197</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>40</td> <td>15</td> <td>80</td> <td>20</td> <td>50</td> <td></td> <td>95000</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>14</td> <td>15</td> <td>83</td> <td>14</td> <td>6</td> <td>1</td> <td>3</td> <td>7</td> <td>1</td> <td><1</td> <td>30</td> <td>40392</td> <td>64155</td> <td>35.8</td> <td>134</td> <td>620°C TO 980°C HOT FORMED</td> </tr> </tbody> </table>												Chemical Composition%											Tensile Test			Hardness Test	Heat Treatment	REMARK	Specif-ication	C	Si	Mn	P	S	CU	Ni	Cr	Mo	V	Nb	C.E	Y.S	T.S	E		X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X1000	X1000	X100	P.S.I	P.S.I	%	HB	Min.		10	29										35000	60000	30	197	Max.	22		135	50	58	40	40	40	15	80	20	50		95000			1	14	15	83	14	6	1	3	7	1	<1	30	40392	64155	35.8	134	620°C TO 980°C HOT FORMED
Chemical Composition%											Tensile Test			Hardness Test	Heat Treatment	REMARK																																																																																																
Specif-ication	C	Si	Mn	P	S	CU	Ni	Cr	Mo	V	Nb	C.E	Y.S				T.S	E																																																																																														
	X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X1000	X1000	X100	P.S.I	P.S.I	%	HB																																																																																																
Min.		10	29										35000	60000	30	197																																																																																																
Max.	22		135	50	58	40	40	40	15	80	20	50		95000																																																																																																		
1	14	15	83	14	6	1	3	7	1	<1	30	40392	64155	35.8	134	620°C TO 980°C HOT FORMED																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Raw Material</th> <th>Specification for Inspection</th> <th>Visual Inspection</th> <th>Dimensional Inspection</th> </tr> </thead> <tbody> <tr> <td>ASTM A106 GR.B/GREEN PIPE FOR A333-6</td> <td>ASME B16.9-2012</td> <td>PASS</td> <td>PASS</td> </tr> </tbody> </table>												Raw Material	Specification for Inspection	Visual Inspection	Dimensional Inspection	ASTM A106 GR.B/GREEN PIPE FOR A333-6	ASME B16.9-2012	PASS	PASS																																																																																													
Raw Material	Specification for Inspection	Visual Inspection	Dimensional Inspection																																																																																																													
ASTM A106 GR.B/GREEN PIPE FOR A333-6	ASME B16.9-2012	PASS	PASS																																																																																																													

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.

Chief of Quality Assurance Section
R. Y. Tsai