



INSPECTION CERTIFICATE

(MILL TEST)

ACCORDANCE WITH EN 10204-3.1

CHUP HSIN ENTERPRISE CO., LTD.

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Certificate No : 00600123-0201
Order No : 7013485/185411-00
Date : 2017/11/13

Customer : SEAMLESS CARBON STEEL BUTT WELD FITTINGS
Product : ASTM A234/SA 234 WPB-2015
Spec : CSA Z245.11-13 Gr 241 Cat I/(standard)
EN10204 3.1/NACE ANSI/NACE MR0175/
ISO 15156-2:2015/MR0103-12

Item	Starting Material	Description	Quantity	Heat ID	Heat No	Raw Certificate No.	NDE	Impact Test		REMARK									
								Test Temp	Charpy V-Notch Impact Value		Ave.								
1	90 E L/R S80		16	6358	26358H	BAOSTEEL BGSOG1604130004600	MT	Size of specimen											
4	90 E L/R STD		30	A785	27785H	BAOSTEEL BGSOG1709190001600													
4	90 E L/R STD		30	D786	27786H	BAOSTEEL BGSOG1709190001600	PASS												
12	TEE STD		16	361D	21361H	BAOSTEEL BGSOG1607250004200	PASS												
13	TEE XS		18	548A	21548H	BAOSTEEL BGSOG1603010003200	PASS												
Chemical Composition%																			
Specifi- cation	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	C.E	Y.S	T.S	E	Hardness Test	Heat Treatment	REMARK	
X100	X100	X100	X1000	X1000	X1000	X100	X100	X100	X1000	X1000	X1000	X100	P.S.I	P.S.I	%				HB
Min.	10	29											35000	60000	30				
Max.	22	135	50	58	40	40	40	15	80	20	50		95000			197			
1	20	25	63	19	13	1	1	1	<1	<1	31	40537	69215	34.0	131	620°C TO 980°C HOT FORMED			
4	14	17	90	10	4	1	5	9	<1	<1	31	40324	64950	38.8	130				
4	14	18	91	12	3	1	5	11	<1	<1	32	41360	69103	41.7	130				
12	19	28	58	12	7	2	7	7	1	4	31	41875	68378	34.2	131				
13	19	25	58	12	6	2	6	7	<1	1	31	45066	72372	34.5	131				
Tension Test											Visual Inspection		Dimensional Inspection						
											GOOD		GOOD						

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

L.S. Tsai