



LOT 61C LONG GIANG INDUSTRIAL PARK, TAN LAP 1 COMMUNE, TAN PHUOC DISTRICT, TIEN GIANG PROVINCE, VIETNAM

**BW FITTINGS CO., LTD**  
**MILL TEST CERTIFICATE**  
 IN ACC TO EN-10204 3.1

CUSTOMER  
 PURCHASE ORDER  
 COMMODITY

: 008/006987  
 : CARBON STEEL BUTTWELD FITTINGS

Chemical Analysis

ITEM NO	Item Description	HEAT NO.	QTY	%C		%SI		%Mn		%P		%S		%Cu		%Ni		%Cr		%Mo		%V		%CE		%Nb	
				5.0,30	2.0,10	0.20	0.22	0.52	0.019	0.006	0.018	0.019	0.022	0.004	0.002	0.29	0.31	0.28	0.31								
41	CON RED12" X 10"XH	438112	2	0.20	0.22	0.52	0.019	0.006	0.018	0.019	0.022	0.004	0.002	0.29	0.31	0.28	0.31										
42	ECC RED10" X 8"XH	654268	8	0.21	0.25	0.59	0.026	0.007	0.012	0.009	0.003	0.003	0.31	0.28	0.31												
43	TEE4"XH	732781	20	0.21	0.16	0.44	0.030	0.010	0.013	0.036	0.014	0.010	0.004	0.28	0.31												
44	TEE10"XH	654268	2	0.21	0.25	0.59	0.026	0.007	0.027	0.012	0.009	0.003	0.31	0.28	0.31												
45	RED TEE6" X 5"XH	834236	40	0.21	0.21	0.59	0.026	0.007	0.027	0.010	0.013	0.003	0.003	0.31	0.31												

ITEM NO	Item Description	HEAT NO.	YS Mpa	TS Mpa	EL %	Hardness (HB)	HEAT TREATMENT	Impact Alc (J)	Red Area %	PMI Test	X-RAY Test	MT Test	Visual Dimension
41	CON RED12" X 10"XH	438112	316	475	37	142	A	-	-	-	N/A	N/A	OK
42	ECC RED10" X 8"XH	654268	281	473	40	145	A	-	-	-	N/A	N/A	OK
43	TEE4"XH	732781	300	478	40	134	S	-	-	-	N/A	QUALIFIED	OK
44	TEE10"XH	654268	281	473	40	148	S	-	-	-	N/A	QUALIFIED	OK
45	RED TEE6" X 5"XH	834236	313	466	38	145	S	-	-	-	N/A	QUALIFIED	OK

NOTE: A: HOT FORMED WITH FINAL TEMPERATURE BETWEEN 820-880 AIR COOLING  
 S: STRESS RELIEVING 675±0.5 H.R. AIR COOLING  
 YS: (YIELD POINT) TS: (TENSILE STRENGTH) E: (ELONGATION)  
 We hereby certify that  
 1. The product described has been manufactured in accordance with ANSI B16.9-2012 which was approved as an American National Standard on December 7, 2012.  
 2. And also with the purchaser's requirements and that the test result shown here are in accordance with ASTM A5A234 WPB.  
 3. The products are seamless  
 4. The starting material for elbows, tees and reducers is seamless pipe. The starting material for caps is plate.  
 5. NO WELD REPAIR  
 6. MERCURY FREE  
 7. MANUFACTURED IN VIETNAM

QA DEPARTMENT  
 NGUYEN VAN TRUNG