



Phoenix * Capitol * Camco CapProducts

Certified Material Test Report

Heat Code: 78FM **Heat No:** 78FM
Item: 48100027: 1 1/2X1 XH WPB CONC SWG TBE

Material: ASTM A234-2019 WPB / ASME SA234-2019 Edition

Chemistry Properties

C	Mn	P	S	Si	Cu	Cr
0.1690	0.6400	0.0130	0.0040	0.2000	0.0050	0.0140
Ni	Mo	V	Co	Al	Cb	N
0.0050	0.0020	0.0020		0.0340	0.0010	
Pb	Sn	Ta	Ti	C Eq. Long		
	0.0050		0.0013	0.2799		

Additional Chemical Properties

Mechanical Properties

Tensile(PSI)	Yield(PSI)	Elong.% in 2in.or 4D	Reduction	HBW	HBW 2
68596	45712	36.5%		147	150

Charpy Minimum Impact - ft/lbs ----- Fracture Appearance - ft/lbs

Test 1	Test 2	Test 3	Avg.	Test Temp.	Test Size	Test 1	Test 2	Test 3	Avg.

We hereby certify that these parts were manufactured, sampled, tested, and inspected in accordance with the product specifications stated and were found to meet the requirements. This document is according to EN 10204 Inspection Certificate 3.1 requirements. These products meet the requirements of the latest editions of NACE MR0175/ISO 15156 and NACE MR0103. No weld repair has been performed on these products. This material was not exposed to mercury or any other metal alloy that is liquid at ambient temperatures during processing or while in our possession.

Manufactured in the USA.

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