



Phoenix * Capitol * Camco CapProducts

Certified Material Test Report

Heat Code: RK Heat No: SO958

Item: 12400130: 3 90 FS 3M SW ELL

Material: ASTM A105-2014 / ASME SA105-2015 Edition

Chemistry Properties

C	Mn	P	S	Si	Cu	Cr
0.1900	1.1100	0.0080	0.0240	0.2800	0.2300	0.1300
Ni	Mo	V	Co	Al	Cb	N
0.0800	0.0300	0.0020		0.0300	0.0000	
Pb	Sn	Ta	Ti	C Eq. Long		
				0.4281		

Additional Chemical Properties

Mechanical Properties

Tensile(PSI)	Yield(PSI)	Elong.% in 2in.or 4D	Reduction	HBW	HBW 2
79300	48200	29%	58.3	157	158

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.

Meets ASME SA-181-70 2017 Edition. Manufactured in the USA.



MILL TEST REPORTS

Bonney Forge
14496 Croghan Pike
Mt. Union, PA 17066

CERTIFIED MILL TEST REPORT

Channel Specialty 12/20/2022

LOT NO.
59765

CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS

3" X 3" 3M A105 90 Degree Elbow Socket-weld

C	0.150	MN	1.130	P	0.010	S	0.017	SI	0.190
NI	0.090	CR	0.180	MO	0.040	CU	0.190	CO	0.007
V	0.024	AL	0.024	CB	0.001				
CE(LONG FORMULA) = 0.406									
T/S(PSI) 73664 Y/S(PSI) 48833 EL(%) 36.150 RA(%) 67.250									
BRINELL HARDNESS 137, 137									

1. CERTIFYING ASTM A105-18 / ASME SA105-19 EDITION.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MR0175/ISO 15156-2.
3. THE MATERIAL SUPPLIED WAS INSPECTED AND MANUFACTURED IN ACCORDANCE WITH EN DIN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT.
4. THE ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

THIS DOCUMENT HAS BEEN ELECTRONICALLY SUBMITTED.

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