

ALLOY PIPING PRODUCTS LLC

Mill Test Report

Date: 09/21/22  
 Time: 16:12:53  
 Page: 1/2



INSPECTION CERTIFICATE  
 EN 10204:2004 Type 3.1

From:  
 Alloy Piping Products, LLC  
 740 North Market Street  
 Shreveport, LA 71107

To:

Customer Order#: APP Invoice#:

Heat Number	Item Number	Item Description	Quantity
V2A-11-27-01	318828	2" 150# A105 RF SLIP ON FLANGES	

Starting Material:  
 Forging

Order Spec:			
Item Spec:	ASTM A105 2018	ASME SA-105 2021	

Test ID:1 Heat Analysis		Chemical Composition (wt%)			
Element	Content	Element	Content	Element	Content
C	0.21000	NI	0.05000	CARBON EQUIVALENT	0.39
MN	0.81000	CR	0.16000	SUM OF CU+NI+CR+MO+V	0.28
P	0.02700	MO	0.01000	SUM OF CR+MO	0.17
S	0.01600	CU	0.06000	CREQ: CR+(0.19*MO)+(0.40*CU)	0.19
SI	0.25000	V	0.00000	MN/C RATIO	3.86
				SUM OF NI+CU	0.11

Test ID: 1		Tensile Test	
Specimen Type:	Longitudinal Round	Gauge Length:	2.0000 in
Tensile Strength:	73,386 psi	Yield Strength:	52,723 psi
Elongation:	36 %	Reduction:	68 %

Test ID: 1		Hardness Test	
Hardness		Notes	
159 HBW		HARDNESS: 153/159 HBW. HARDNESS IS ACCEPTABLE IN ACCORDANCE WITH NACE MR0175/ISO 15156:2015 AND MR0103/ISO 17945:2015	

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Material supplied in accordance with a Quality Management System certified to ISO 9001:2015. Certificate Number: Q1674

Dimensions and Tolerances in accordance with ASME B16.9 or B16.5, as applicable. Bevels in accordance with ASME B16.25, unless noted otherwise.

Material, when shipped, is free from contamination by mercury, radium, alpha source and low melting elements. Where applicable, welds are 100% radiographed and acceptable to ASME Section VIII - Para UW-51. We hereby certify that the materials listed above have been manufactured, sampled, tested and inspected in accordance with the specifications and grade listed, and have been found to meet the requirements.

A handwritten signature in black ink that reads 'Stacy Freeman'.

QA Supervisor

09/21/22

Date