

Material Test Report

Heat Code: JAS

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015

Line: 13

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0

PO: 9545 Sales Order: 90421 Item Code: 0601300102-0021F Qty Shipped: 10

Item Desc: FLG 03.00 0600 WN RF XH

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3019783 Spec: ASTM A105/A105N-(10)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

•	0.19 1.05 0.005	✓ 7439-96-5	Ni Nickel Cr Chromium	0.09 0.07	✓ 7440-02-0 ✓ 7440-47-1
P Phosphorous S Sulphur		√ 7439-96-5	•	0.07	1 7440 47 5
S Sulphur	0.005		1		1440-47-
•			Mo Molybdenum	0.025	
Si Silicon	0.011		V Vanadium	0.003	
	0.24		Cb Columbium	0.001	
Cu Copper	0.20	√ 7440-50-8	C.E.	0.40	

Mechanical Testing		Hea	Heat Treat		
Test Lab	AFG	Norm. Temp. (F)	1675		
Test Bar Size	TEST PIECE	Norm. (Hrs)	4.0		
HBW	149 - 149	Norm. Cooling Type	AIR		
Elg (%)	29.0	Norm. Location	AFG		
RA (%)	63.0	<u>.</u>			
Tensile Specimen Size (in)	.249	Other			
Tensile (ksi)	78.8	MILL	CMC-TEXAS		
Yield (ksi)	47,6	MHC	3019783		
Gauge Length	1	EF	Y		
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		•			
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Product compliant with NACE MR0175, latest edition and dimensions to ANSI B16.5 No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method. No welding performed.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title !!! of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chamicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

196508

Certification Date:

12/16/2010

Nicholas Tepovich - Metallurgic Lab Manager

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b