

Material Test Report

Heat Code: JSB

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

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

54940 TULTITLAN, EDO, MEX

Sales Order: 100764 Line: 13 PO: 11304 Qty Shipped: 10 Item Code: 0603400100-0021F

Item Desc: FLG 04.00 0600 BL RF

Supplier Heat: 3023955 Supplier: CMC

Spec: ASTM A105/A105N-(10)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

Elemei	nt (%	(wt)	Ladle	Product	EPCRA	A CAS#	Élement	(%wt)	Ladle	Product	EPCRA	CAS#
C C	arbon		0.20				Ni Nickel		0.07	,,		7440-02-0
	fanganese		1.00		✓	7439-96-5	Cr Chromi	Lum	0.07		✓ .	7440-47-3
	hosphorou	າຣ	0.008				Mo Molybo	ienum	0.019			
S 8	Sulphur		0,014				. V Vanad	lum	0.004			
	Silicon		0.23				Cb Columb	oium	0.001			
Cu c	Copper		0.21		✓	7440-50-8	C.E.		0.40			
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Mechanical Te	esting	Heat Treat				
Test Lab	AFG	Norm, Temp, (F)	1675			
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4			
нви	152 - 152	Norm, Cooling Type	AIR			
Elg (%)	36,0	Norm. Location	AFG			
RA (%)	62.0					
Tensile Specimen Size (in)	. 499		Other			
Tensile (ksi)	77.6	WILL	CMC-TEXAS			
Yield (ksi)	46.9	MHC	3023955			
Gauge Length	2					
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Product compliant with NACE MR0175 and NACE MR0103 latest edition and dimensions to ANSI B16.5 - 2009 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 III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals 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.:

219908

Certification Date:

10/4/2011

Nicholas Tepovich - Metallurgic Lab Manager

Nicholas Separal

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