

Material Test Report

Heat Code: JTG

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

ISO 9001:2008 Certified Sales: (713) 868-4421 Fax: (713) 455-8366

PO: 11073 PLESA ANAHUAC Y CIAS Sales Order: 99187R Line: 1 SA DE CV AV. VALLE DE LAS Item Code: 0601600102-0021F Qty Shipped: 110

ALAMEDAS 66-0 Item Desc: FLG 06.00 0600 WN RF XH

54940 TULTITLAN, EDO, MEX Supplier: CMC Supplier Heat: 3024401

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

Elem	ient (%wt)	Ladle	Product	EPCR4	CAS#	Elemer	it (%wt)	Ladle	Product	EPCR/	A CAS#
С	Carbon	0.19				Ni N	ickel	0.07		✓	7440-02-0
Mn	Manganese	1.01		✓	7439-96-5	Cr c	hromium	80.0		✓	7440-47-3
P	Phosphorous	0.009				Мо м	olybdenum	0.021			
S	Sulphur	0.015				V v	anadium	0.003			
Si	Silicon	0.22				Cb c	olumbium	0.002			
Cu	Copper	0.29		✓ .	7440-50-8	C.E.		0.40			
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Mechanical To	esting	Heat Treat			
Test Lab	AFG	Norm. Temp. (F)	1675		
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4		
нвм	156 - 156	Norm. Cooling Type	AIR		
Elg.(%)	36	Norm. Location	AFG		
RA (%)	62	•			
Tensile Specimen Size (in)	. 495	O1	ther		
Tensile (ksi)	77.9	MILL	CMC-TEXAS		
Yield (ksi)	47.5	мнс	3024401		
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.: 216961 Certification Date:

9/1/2011

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

Nicholas Tepovich - Metallurgic Lab Manager