

## **Material Test Report**

Heat Code: HXS

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 PO: 9216 Sales Order: 89436 Item Code: 0601910101-0021F

**Line**: 13

ALAMEDAS 66-0

Item Desc: FLG 10.00 0600 WN RF STD

Qty Shipped: 5

54940 TULTITLAN, EDO, MEX

Supplier: MACSTEEL

Supplier Heat: 4M74557

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

Elen	nent (%wt)	Ladle	Product	EPCRA CAS#	Element	(%wt)	Ladle	Product	EPCRA CAS#
С	Carbon	0.20			Ni Nickel		0.06	•	✓ 7440-02-0
Mn	Manganese	1.06		√ 7439-96-5	Cr Chromiu	am	0.13		✓ 7440-47-3
P	Phosphorous	0.020			Mo Molybde	enum	0.01		
S	Sulphur	0.008			V Vanadiu	ım	0.005		
Si	Silicon	0.19			Cb Columbi	ium	0.001		
Cu	Copper	0.18		✓ 7440-50-8	C.E.		0.42		
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					1				

Mechanical T	esting	Heat	Heat Treat			
Test Lab	AFG	Norm. Temp. (F)	1675			
Test Bar Size	TEST PIECE	Norm. (Hrs)	4			
HBW	146 ~ 146	Norm. Cooling Type	AIR			
Elg (%)	31	Norm. Location	AFG			
RA (%)	63					
Tensile Specimen Size (in)	.217	Ott	ner .			
Tensile (ksi)	77.5	MILL	MACSTEEL			
Yield (ksi)	48.3	мнс	4M74557			
Gauge Length	1					
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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 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.:

193014

Certification Date:

10/25/2010

Nicholas Tepovich - Metallurgic Lab Manager