

## **Material Test Report**

Heat Code: HRK

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: 8379 Item Code: 0152600100-0020F

Sales Order: 75369

Line: 5

ALAMEDAS 66-0

Item Desc: FLG 06.00 0150 SO RF Qty Shipped: 200

Supplier: CMC

Supplier Heat: 3017146

54940 TULTITLAN, EDO, MEX

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Elem	ent (%wt)	Ladle	Product	EPCRA	CAS#	Elem	ent	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.19				Cr	Chromi	Lum	0.05		<b>√</b> 7	440-47-3
Mn	Manganese	1.06		√ 7	439-96-5	Мо	Molybo	denum	0.02			
P	Phosphorous	0.007				V	Vanadi	ium	0.003			
S	Sulphur	0.016				Cb	Columb	oium	0.001			
Si	Silicon	0.25				C.E.			0.41			
Cu	Copper	0.27		✓ 7	440-50-8	CuNi	CrMo		0.435			
Ni	Nickel	0.09		✓ 7	440-02-0	CrMc	,		0.075			
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Mechanical Te	esting		Other				
Test Lab	AFG	MILL	CMC-TEXAS				
Test Bar Size	Test Piece	мнс	3017146				
нвw	163 - 163	Country of Origin	USA				
Elg (%)	32.0	EF	Y				
RA (%)	60.0	Fully Killed	Y				
Tensile Specimen Size (in)	.497						
Tensile (ksi)	79.1						
Yield (ksi)	43.7	:					
Gauge Length	2						
1							
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Product compliant with NACE MR0175, latest edition and dimensions to ASME B16.5 Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition. 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 weld repair performed on this product. Product compliant with NACE MR0103, latest edition.

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 EPCRÁ Section 313.

Certification No.:

187189

Certification Date:

8/3/2010

Nicholas Tepovich - Metallurgic Lab Manager

aragel solution

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