

Material Test Report

Heat Code: HMS

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

54940 TULTITLAN, EDO, MEX

ALAMEDAS 66-0

Item Code:

76145 Line: 6
Qty Shipped: 50

Item Desc: FLG 02.00 0150 SO RF

Supplier: CMC

Supplier Heat: 3016000

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

Elen	nent (%wt)	Ladle	Product	EPCR/	A CAS#	Eler	nent	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.21				Cr	Chrom	Lum	0.07		√ 7	440-47-3
Mn	Manganese	1.05		✓	7439-96-5	Мо	Molybo	denum	0.01			
P	Phosphorous	0.009				v	Vanad:	ium	0.002			
S	Sulphur	0.017				Сь	Columi	oium	0.001			
Si	Silicon	0.23				C.E			0.42			
Cu	Copper	0.22		✓	7440-50-8	CuN	iCrMo		0.373			
Ni	Nickel	0.07		✓	7440-02-0	CrM)		0.083			

Mechanical T	esting		Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	Test Piece	мнс	3016000
HBW	170 - 170	Country of Origin	USA
Elg (%)	30.0	EF	Y
RA (%)	60.0	Fully Killed	Y
Tensile Specimen Size (in)	.248		
Tensile (ksi)	81.9	<u>:</u>	
Yield (ksi)	49.7	•	
Gauge Length	1	•	
		<u>:</u>	
		•	
		•	
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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 EPCRA Section 313.

Certification No.:

187826

Certification Date:

8/12/2010

Nicholas Tepovich - Metallurgic Lab Manager

Violades Jepa

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