

## **Material Test Report**

Heat Code: JNS

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

PO: 10492

Sales

Sales Order: 95070

Line: 6

Item Code: 0152300100-0020F

Item Desc: FLG 03.00 0150 SO RF Supplier: CMC Supplier Heat: 3022500

Qty Shipped: 7

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

Eler	ment (%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.21			<del></del>	Cr	Chromi	Lum	0.10		17	440-47-3
Mn	Manganese	1.04		1	7439-96-5	Mo	Molybo	denum	0.03			
P	Phosphorous	0.011				V	Vanadi	Lum	0.003			
S	Sulphur	0.021				Cb	Columb	oium	0.001			
Si	Silicon	0.23				C.E.			0.43			
Cu	Copper	0.23		✓	7440-50-8	CuNi	CrMo		0.458			
Ni	Nickel	0.10		/	7440-02-0	CrMo	9		0.128			

Mechanical T	esting		Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	TEST PIECE	MHC	3022500
HBW	163 - 163	EF	Y
Elg (%)	32.0	Fully Killed	Y
RA (%)	61.0		
Tensile Specimen Size (in)	.497		
Tensile (ksi)	82.5		
Yield (ksi)	48.6		
Gauge Length	2.0	•	
		•	
		•	
		•	
		;	

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 MR0175, latest edition and dimensions to ASME B16.5

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.:

207622

Certification Date:

5/11/2011

Nicholas Tepovich - Metallurgic Lab Manager

Nieladas Leparel

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