

Material Test Report

Heat Code: ALJ

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

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS

ALAMEDAS 66-0

54940 TULTITLAN, EDO MEX

PO: 4801 | Sales Order: 65670 | Line: 2

 Item Code:
 0152400100-0020F
 Qty Shipped:
 100

 Item Desc:
 FLG 04.00 0150 SO RF
 A105 NHT COFFR

Supplier: CMC Supplier Heat: 3000478

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

Elen	nent (%wt)	Ladie	Product	EPCR	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.22				Cr Chromi	um	0.11		V 7	440-47-3
Mn	Manganese	0.93		1	7439-96-5	Mo Molybd	enum	0.038			
P	Phosphorous	0.006				V Vanadi	um	0.005			
S	Sulphur	0.025				Cb Columb	ium	0.000			
Si	Silicon	0.21				C.E.		0.432			
Cu	Copper	0.27		~	7440-50-8	Cunicrmo		0.54			
Ni	Nickel	0.12		/	7440-02-0	CrMo		0.15			

Mechanica		Othe	ır
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size	SACRIFICIAL PIECE	EF	Y
HBW	170-170		
Elg (%)	32.0		
RA (%)	60.0		
Tensile Specimen Size (in)	0.249		
Tensile (ksi)	83.9		
Yield (ksi)	47.9		
Gauge Length	1.00		

Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM Al05/ASME SAl05, 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.

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 1985) 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.:

145353

Certification Date:

7/9/2008

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

Puneet Saggar - Plant Metallurgist