## **Material Test Report**

Heat Code: AUG

An Ameri-Forge Group Company

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

Item Desc: FLG 04.00 0600 WN RF XH A105 Supplier: CMC

PO: 4540

Sales Order: 64906 Line: 8 Item Code: 0601400102-0021F Qty Shipped: 20

NRM COFFR

54940 TULTITLAN, EDO MEX

Supplier Heat: 3002114

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04 Normalized

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Elemen	t (%wt)	Ledle	Dendust	F0004
С	Carbon	0.21		4			ckel		Product	EPCRA CAS#
Mn	Manganese	0.92		1	7439-96-5	:	COMTAM	0.11		7440-02-0
P	Phosphorous	0.007					lybdenum	0.13		7440-47-3
S	Sulphur	0.021					nadium	0.002		
Si	Silicon	0.21				:	lumbium	0.002		
Cu	Copper	0.21		1	7440-50-8	C.E.		0.42		10 11
					7440-30-6	C.E.		0.42		Park 1

Mechanica	ı		Heat Treat	
Test Lab	AFG	Norm. Temp. (F)		1675
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)		4.0
HBW	143-143	Norm. Cooling Type		AIR
Elg (%)	33.0	Norm. Location		AFG
RA (%)	56.0			
Tensile Specimen Size (in)	0.245		Other	
Tensile (ksi)	75.5	Country of Origin		USA (US)
Yield (ksi)	45.3	EF		Y
Gauge Length	1.00			
				* ",

Product compliant with DIMS. to ANSI B16.5

Product compliant with NACE MR0175, 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 1986) and 40 C.F.R. Parl 372. Potentiaty 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.:

143845

Certification Date:

6/18/2008

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

Puneet Saggar - Plant Metallurgist