

## **Material Test Report**

Heat Code: ZNG

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

NHT COFFR

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 Code: 0152910100-0020f

Sales Order: 62636 Line: 5

Item Desc: FLG 10.00 0150 SO RF

Qty Shipped: 65

54940 TULTITLAN, EDO MEX

Supplier: CMC

Supplier Heat: 259610

A105

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Melt Practice EF

PO: 3815

Elen	nent (%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	<b>EPCRA</b>	CAS#
C	Carbon	0.18				Cr Chromi	ium	0.13		√ 74	440-47-3
Mn	Manganese	0.89		✓ ·	7439-96-5	Mo Molybo	denum	0.026			
P	Phosphorous	0.009				V Vanadi	ium	0.000			
S	Sulphur	0.018				Cb Columb	oium	0.003			
Si	Silicon	0.18				C.E.		0.382			
Cu	Copper	0.26		✓ .	7440-50-8	CuNiCrMo		0.50			
Ni	Nickel	0.08		• 🗸 .	7440-02-0	CrMo		0.16			
						:					
						:					
						:					

Mechanic	al	Other			
Test Lab	AFG	Country of Origin	USA (US)		
Test Bar Size	SACRIFICIAL PIECE	EF	Y		
нвм	149-149				
Elg (%)	30.0	•			
RA (%)	49.0				
Tensile Specimen Size (in)	2.000	•			
Tensile (ksi)	75.2				
Yield (ksi)	44.6				
Gauge Length	2.00				
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Material on this report is certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE MRO175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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. 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.:

131279

Certification Date:

12/11/2007

Kevin Papich - Tech. Svcs. Manager