

## **Material Test Report**

Heat Code: YZX

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

Line: 21

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:
 3817
 Sales Order:
 63247

 Item Code:
 0303400100-0020F
 Qty Sales

 Item Desc:
 FLG 04.00 0300 BL RF
 A105

Qty Shipped: 20

Supplier: CMC

Supplier Heat: 257494

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

Elem	ent (%wt)	Ladle	Product	EPCR/	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.19				Cr Chromi	um	0.11		✓ 7	140-47-3
Mn	Manganese	0.88		✓	7439-96-5	Mo Molybo	denum	0.024			
P	Phosphorous	0.008				V Vanadi	ium	0.001			
S	Sulphur	0.020				Cb Columb	oium	0.002			
Si	Silicon	0.19				C.E.		0.385			
Cu	Copper	0.25		✓	7440-50-8	CuNiCrMo		0.45			
Ni	Nickel	0.07		• 1	7440-02-0	CrMo		0.13			

Mechanic	al	Other					
Test Lab	AFG	Country of Origin	USA (US)				
Test Bar Size	SACRIFICIAL PIECE	EF	Y				
нви	156-156						
Elg (%)	30.0						
RA (%)	61.0	•					
Tensile Specimen Size (in)	0.249						
Tensile (ksi)	75.7						
Yield (ksi)	42.0						
Gauge Length	1.00						
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Material on this reportis certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE MR0175, 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.:

134604

Certification Date:

2/7/2008

Puneet Saggar - Plant Metallurgist

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