

## **Material Test Report**

Heat Code: YZL

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 Item Desc: FLG 06.00 0300 BL RF A105 NHT COFFR

Supplier: CMC Supplier Heat: 257506

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

C Carbon Mn Mangane P Phospho S Sulphur	ese	0.20 0.94 0.012	<b>✓</b>	7439-96-5	:	romium olybdenum	0.16 0.036	✓ 7	440-47-3
P Phospho			✓	7439-96-5	Mo Mo	Lubdonum	0.036		
	orous	0.012			. 110	Tybaenam	0.030		
S. Sulphus		0.012			V Va	nadium	0.003		
2 Surbuni	ır	0.020			Cb Co	olumbium	0.003		
Si Silicor	n	0.19			C.E.		0.421		
Cu Copper	:	0.27	✓	7440-50-8	CuNiCr	Mo	0.57		
Ni Nickel		0.10	•	7440-02-0	CrMo		0.20		

Mechanic	al	Other	
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size	SACRIFICIAL PIECE	EF	Y
HBW	163-170		
Elg (%)	31.0		
RA (%)	56.0		
Tensile Specimen Size (in)	0.500		
Tensile (ksi)	81.2		
Yield (ksi)	47.6		
Gauge Length	2.00		
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Material on this reportis certified to NACE MR-01-75 and DIMS. to ANSI B16.5 Product compliant with NACE 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.:

134603

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