Material Test Report

Heat Code: ZKV

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

PO: 3817

Sales Order: 63247

Line: 16

ALAMEDAS 66-0

Item Code: 0151400101-0020F

Qty Shipped: 125

54940 TULTITLAN, EDO MEX

Item Desc: FLG 04.00 0150 WN RF STD A105

Supplier Heat: 258970 Supplier: CMC

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

%wt) Ladle 0.21 0.89 0.011		√ 7439-96-5	Cr Chromium Mo Molybdenum V , Vanadium	0.11 0.019 0.002		✓ 7440-47-3
us 0.011		✓ 7439-96-5	;			
			V , Vanadium	0.002		
0.000						
0.020			Cb Columbium	0.001		
0.19			C.E.	0.409		
0.28		✓ 7440-50-8	CuNiCrMo	0.50		
0.09		✓ 7440-02-0	CrMo	0.13		
	0.28	0.28	0.28 ✓ 7440-50-8	0.28	0.28	0.28

Mechanical		Other	
Test Lab	AFG	Country of Origin	USA (US)
Test Bar Size .	SACRIFICIAL PIECE	EF	Y
нвw	163-167		
Elg (%)	33.0		
RA (%)	62.0		
Tensile Specimen Size (in)	0.249		
Tensile (ksi)	80.7		
Yield (ksi)	45.8		
Gauge Length	1.00		
			×
•			

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.:

134575

Certification Date:

2/7/2008

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

Puneet Saggar - Plant Metallurgist