

Material Test Report

Heat Code: GWK

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2000 Certified

 PLESA ANAHUAC Y CIAS
 PO: 6849
 Sales Order: 70840
 Line: 7

 SA DE CV AV. VALLE DE LAS
 Item Code: 0301600101-0020F
 Qty Shipped: 6

 ALAMEDAS 66-0
 Item Desc: FLG 06.00 0300 WN RF STD

 54940 TULTITLAN, EDO, MEX
 Supplier: CMC
 Supplier Heat: 3007494

 Spec: ASTM A105/A105M-(05)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	ent (%wt)	Ladle	Product	EPCR/	A CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
С	Carbon	0.20				Cr Chr	omium	0.06		√ 7	440-47-3
Mn	Manganese	0.91		1	7439-96-5	Mo Moly	ybdenum	0.02			
P	Phosphorous	0.007				V Vana	adium	0.002			
S	Sulphur	0.017				Cb Col	umbium	0.003			
Si	Silicon	0.22				C.E.		0.39			
Cu	Copper	0.18		✓	7440-50-8	CuNiCrM	0	0.34			
Ni	Nickel	0.08		✓	7440-02-0	CrMo		80.0			

Mechanical To	esting		Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	SACRIFICIAL PIECE	мнс	3007494
HBW	156 - 156	VD	У
Elg (%)	31.0	EF	У
RA (%)	60.0		
Tensile Specimen Size (in)	.249		
Tensile (ksi)	77.6		
Yield (ksi)	41,4		
Gauge Length	1		
		•	

Product compliant with NACE MR0175 / ISO 15156, latest edition and dimensions to ANSI B16.5

Product compliant with and meets all requirements of ASTM A105/ASME SA105, 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. 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.: 169508
Certification Date: 8/10/2009

Nicholas Legarel