



Material Test Report

Heat Code: GKX

ISO 9001:2000 Certified

An Ameri-Forge Group Company
 13770 Industrial Rd. Houston, TX 77015
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PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0 54940 TULTITLAN, EDO, MEX	PO: 8379	Sales Order: 75369	Line: 20
	Item Code: 0151500101-0020F		Qty Shipped: 20
	Item Desc: FLG 05.00 0150 WN RF STD		
	Supplier: CMC		Supplier Heat: 3006168

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.23				Cr	Chromium	0.08		✓	7440-47-3
Mn	Manganese	0.95		✓	7439-96-5	Mo	Molybdenum	0.02			
P	Phosphorous	0.010				V	Vanadium	0.002			
S	Sulphur	0.020				Cb	Columbium	0.001			
Si	Silicon	0.20				C.E.		0.4318			
Cu	Copper	0.27		✓	7440-50-8	CuNiCrMo		0.442			
Ni	Nickel	0.07		✓	7440-02-0	CrMo		0.102			

Mechanical Testing					Other				
Test Lab	AFG				MILL	CMC			
Test Bar Size	SACRIFICIAL PIECE				MHC	3006168			
HBW	163 - 163				Country of Origin	USA (US)			
Elg (%)	29.0				EF	Y			
RA (%)	56.0				Fully Killed	Y			
Tensile Specimen Size (in)	.245								
Tensile (ksi)	86.8								
Yield (ksi)	52.1								
Gauge Length	1								

Product compliant with NACE MR0175, latest edition and dimensions to ASME 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.
 No weld repair performed on this product.
 Product compliant with NACE MR0103, latest edition.

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.: 184958
 Certification Date: 6/24/2010