

Material Test Report

Heat Code: RW709

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

PO: 4801 Sales Order: 65670 Item Code: 0151918101-0020F

Qtv Shipped: 8

NHT COFFR

Item Desc: FLG 18.00 0150 WN RF STD A105 Supplier Heat: RW709 Supplier: ROLLWELL

Spec: ASME SA-105/SA-105M 2004 Section II/ASTM A105/A105M-03

Element	(%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladie	Product	EPCRA	CAS#
C Carbo	n	0.21				Cr Chromi	um	0.01		V 7	440-47-
Mn Manga	nese	88.0		· ·	7439-96-5	Mo Molybo	enum	0.010			
P Phosp	horous	0.012				V Vanadi	tum	0.010			
S Sulph	ur	800.0				Cb Columb	nium	0.010			
Si Silic	on	0.28				C.E.		0.364			
Cu Coppe	er .	0.01		✓ .	7440-50-8	CuNiCrMo		0.04			
Ni Nicke	1	0.01		.	7440-02-0	CrMo		0.02			

Mechanica		Other				
Test Lab	ROLLWELL	Country of Origin	INDIA			
Test Bar Size	SACRIFICIAL PIECE	EF	Y			
HBW	145-153					
Elg (%)	33.6					
RA (%)	60.3					
Tensile Specimen Size (in)	0.000					
Tensile (ksi)	71.2					
Yield (ksi)	37.5					
Gauge Length	0.00					

Product compliant with NACE MR0175, latest edition.

Product compliant with and meets all requirements of ASTM A105/ASME SA105, latest edition.

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.:

Certification Date:

7/9/2008

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

Puneet Saggar - Plant Metallurgist