



Material Test Report

Heat Code: 531330/1

An Ameri-Forge Group Company

13770 Industrial Road
Houston, TX 77015

ISO 9001:2000 Certified

Sales: (713) 393-4200 Fax: (713) 455-8366

PLESA ANAHUAC Y CIAS	PO: 1345	Sales Order: 54360	Sales Ord Line: 6
SA DE CV AV. VALLE DE LAS TULTITLAN, EDO, MEX 54940	Part Desc: FLG 24.00 0150 BL RF / A105 NHT COFFR		
	Part No: 0153924100-0020F	Qty Shipped: 5	
	Vendor: BEBITZ	Vendor Heat Code: 531330/1	

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

	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
Ladle:	0.19	0.83	0.007	0.003	0.21	0.12	0.09	0.18	0.030	0.001	0.001
Product:											
	C.E.	CuNiCrMo	CrMo								
Ladle:	0.384530	0.42	0.21								
Product:											

Mechanical Properties	Heat Treatment	Other Results
Test Lab: BEBITZ Test Bar Size: SACRIFICIAL BHN: 150-153 Elg (%): 31.3 RA (%): 60.0 Tensile Specimen Size: 0.000 Tensile (ksi): 71.7 Yield (ksi): 39.8 Gauge Length: 0.00		EF Y

Comments

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.
 Product compliant with NACE MRO175, latest edition.
 Product compliant with and meets all requirements of ASTM A105/ASME SA105-05.

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

MTR No. 88987
MTR Date: 5/9/2006

S. Drozdowski
Stan Drozdowski - AFG Test Lab Manager