

Material Test Report

Heat Code: ZPG

Coffer Corp.
An AFGlobal Company
13770 Industrial Rd. Houston, TX 77015
Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA STEEL INC.	00012015	PO: 441	Sales Order: 155907	Line: 5
5100 WESTHEIMER RD STE 200		Item Code: 0601300102-0AWLF	Qty Shipped: 20	
Houston, TX 77056		Item Desc: FLG 03.00 0600 WN RF XH A105/F42	NRM COFFR	
Spec: ASTM A105/A105N-(14) ASME SA 105/SA 105N-(15) / A694/A 694M (14), F42			Supplier Heat: 3052051	

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.18				Ni	Nickel	0.08			
Mn	Manganese	0.99		✓	7439-96-5	Cr	Chromium	0.09		✓	7440-02-0
P	Phosphorous	0.009				Mo	Molybdenum	0.025		✓	7440-47-3
S	Sulphur	0.024				V	Vanadium	0.002			
Si	Silicon	0.23				Cb	Columbium	0.001			
Cu	Copper	0.25		✓	7440-50-8	C.E.		0.39			

Mechanical Testing		Heat Treat	
Test Lab	AFG	Norm. Temp. (F)	1675
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4
HBW	143 - 146	Norm. Cooling Type	AIR
Elg (%)	30		
RA (%)	53	Other	Y
Tensile Specimen Size (in)	.247		
Tensile (ksi)	75.7		
Yield (ksi)	45		
Gauge Length (in)	1		

Product compliant with NACE MR0175/ISO 15156-2:2009 Annex A (A.2.1.2, A2.1.3).
Product compliant with NACE MR0103-2012, Section 2.1.2 and 2.1.4.

* No Weld repair performed.
* Ladle Chemical Analysis results are reported from the raw material suppliers MTR.
* Tensile taken from a round specimen. Measurement of elongation after fracture.
* Yield strength was determined using the .2% offset method, unless otherwise specified.
* 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.
* When reported on MTR: Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10; Charpy Testing Per ASTM E23
* AF Global manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 2014/68/EU, Annex 1, Section 4.3

Unless otherwise noted on PO, Dimensions of all standard pipe flanges and flange fittings (NPS 1/2 to NPS 24) per ASME B16.5-2013, large diameter steel flanges (NPS 26 to 60) per ASME B16.47-2011, Orifice flanges per ASME B16.36-2015, Steel pipeline flanges (NPS 1/2 to 60) per MSS SP-44.

The recording of false, fictitious, or fraudulent statement or entries on this document may be punishable as a felony under federal statute.
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.: 1260047
Certification Date: 10/7/2016
Issued By: John Saucedo
This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.0


 Rina Sane - Metallurgical Lab Manager