

9124

Sample Re:

Sample Result Name		Type	Measure Date Time		Recalculation Date Time		Origin												
9124 (m.d steel)		Unknown	Monday, January 13, 2014		2:11:39 PM		Measured												
Method Name	Method Version	Operator Name	Check Type		Check Status														
Fe-30-MO		SARA SAE	None		Not Used														
Grade Verification Name	Grade Verification Similarity	Correction Type	Type	Corr Sample Name	Grade Search Name														
Grade Search Similarity	0	None	Outlier Removal																
0	None	Status	Not Used																
Sample Name	Grade																		
9124 (m.d steel)																			
C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr	
Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
2	0.025	0.27	0.45	0.010	<0.002	20.64	2.50	39.65	0.090	0.071	1.65	0.041	0.60	0.047	<0.040	0.013	0.006	0.005	<0.003
3	0.028	0.28	0.45	0.012	<0.002	20.75	2.54	39.59	0.091	0.071	1.65	0.044	0.62	0.047	<0.040	0.012	0.007	0.006	<0.003
4	0.024	0.28	0.45	0.011	<0.002	20.83	2.49	39.44	0.092	0.071	1.66	0.043	0.59	0.046	<0.040	0.013	0.007	<0.005	<0.003
5	0.022	0.28	0.45	0.010	<0.002	20.86	2.46	39.44	0.092	0.072	1.68	0.041	0.60	0.045	<0.040	0.013	0.007	0.006	0.003
Rep	0.025	0.27	0.45	0.011	<0.002	20.77	2.50	39.53	0.091	0.071	1.66	0.042	0.60	0.046	<0.040	0.013	0.007	0.006	0.003
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	0.0010	0.002	0.040	0.010	0.002	0.005	0.003
Mean	0.025	0.27	0.45	0.011	<0.0007	20.77	2.50	39.53	0.091	0.071	1.66	0.042	0.60	0.046	<0.023	0.013	0.007	0.005	<0.003
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19
Ca	B	Fe																	
Conc	Conc	Conc																	
%	%	%																	
2	0.002	0.001	33.88																
3	0.002	0.001	33.76																
4	0.002	0.001	33.90																
5	0.002	0.0008	33.88																
Rep	0.002	0.001	33.86																
Min Cal	0.0005	0.0005																	
Mean	0.002	0.001	33.92																
Max Cal	0.016	0.025																	

OK
AN-808

on 12-8-14
V. J. J. J.

13734



M.D. Steels Pvt. Ltd.

Plot No. F- 669 , Phase - II

RIICO Industrial Area , Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@ gmail.com Website : www mdsteels.com

Customer : M/s Sara Sae Pvt. Ltd. UNIT - II A-2, Sara Industrial Estate Ltd. Chakrata Road, Rampur Dehradun - 248197 - Uttarakhand	T.C. No.	: M- 1435
	Dated	: 08.01.2014
	Heat No.	: 1535/L -29 / 2013
	Date	: 29.12.2013

P.O. No. : Dated 20.12.2013

Specification : INC 825

Foundry identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1150⁰ C, 1.30 Hours Soaking and water quenched.

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.046 ✓	0.480 ✓	0.226 ✓	20.20 ✓	39.500 ✓	3.000 ✓	0.015 ✓	0.050 ✓	1.700 ✓	1.10 ✓	0.014 ✓

MECHANICAL PROPERTIES

	Y.S	UTS	EL%	Reductio	Charpy At ambient	Bend Tes	Hardness			
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		HRB			
Min										
Max.										
Actual										

S. No.	Description	Item & Code	Qty.
1	Centrifugally Casted Rings Proof Machined Size OD 291 mm X ID 254 mm X H- 43 mm	BNT & IX708-R	25 Nos. (01 - 25)

Remarks : Visual Inspection Carried out and dimension checked and found Ok.

on 29.12.13
Dubak

specification and was found to meet the requirements and also compliance to the purchase order.

Gopal Dass
Checked by

[Signature]
Approved by.

for M. D. Steels Pvt. Ltd.
[Signature]
Quality Control

M. D. STEELS (P) LTD.
F-669, Phase-II, Indl. Area
BHIWADI - 301 019.
☎ : 01493 - 222483, 512079