

TEST REPORT



Razi Applied Science Foundation

In The Name of God

www.razi-foundation.com
info@razi-foundation.com

Contract No.	4-31365
Date Reported	2020-01-13
Revision No.	0
Attachment	
Sample Received on	2020-01-02
Tested On	2020-01-04
Client Letter No	
Client Letter Date	

No.27, Ferman St., Shahid Ghasem Asghari Blvd., Shahr-e-Qods Entrance, Km 21 Karadj Makhsoos Road, Tehran-IRAN Post Code: 3753145114 Tel:(+9821)49732, (+9821)46841121

Client:Arma

Address:Tehran

Sample Name:Z8

Environmental Conditions: Temperature Humidity: Sampling was performed by the client Page No 1 Of 3



Analitica

ISO/IEC 17025 (2005)

Analitica
Accreditation Certificate
No.AAC.A.00223

Accredited Lab. by:
Institute of Standard & Industrial
Research of Iran T/3048

SAPCO
Mobarakeh Steel Co.
Sazeh Gostar SAIPA
P.O.G.C

Laboratory Manager

S.Nasiri

Technical Manager

R.A.S. Khoshmanesh



- Samples will be retained for a period of one month only, unless otherwise requested.
- Approval of the testing laboratory is required for reproduction.
- The test results relate only to the samples tested.
- RASF is not responsible for compliance of sample name with the tested sample.
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Client:Arma

Address:Tehran

Sample Name:Z8

Environmental Conditions: Temperature 24C Humidity: %24 Sampling was performed by the client Page No 2 Of 3

Chemical Analysis by Atomic Emission Spectrometry (OES)

Standard Test Method: ASTM A751 (2014a)/ ASTM E415(2017)

Standard Practice for Reporting : ASTM E1950 (2017)/ ASTM E29 (2013)

INSTRUMENT: OXFORD ☐ ARL ☐ HITACHI ☒Preparation Sample: Grinding ☒ Remelting And grinding (ASTM E1010-16) ☐ Machining ☐Material Type: Ferrous ☒ Non Ferrous ☐

Result of chemical analysis test:

C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb
0.68	0.21	0.91	0.031	0.020	0.55	0.01	0.03	0.004	0.01	0.04	< 0.002
Ti	V	W	Pb	Sn	B	Zr	Bi	As	Fe		
0.004	0.018	< 0.015	< 0.01	0.004	< 0.0008	< 0.002	< 0.01	0.006	Base		

AsNaLiTaCa

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Client:Arma

Address:Tehran

Sample Name:Z8

Environmental Conditions: Temperature 25C Humidity: %41 Sampling was performed by the client Page No 3 Of 3

Rockwell C HARDNESS TESTING

Reference Standard: ASTM E18(2017) - BS EN ISO 6508-1(2015)

Instrument: INNOVATEST NEXUS 8000XL

Indenter ☒ Diamond sphero-conical indenter ☐ ball 1/16-in. (1.588-mm)Applied Force: ☐ HRA 60 Kgf (588.4 N) ☐ HRB 100 Kgf (980.07 N) ☒ HRC 150 Kgf (1471 N)

No.	Test location	Hardness at measured point(HRC)			Hardness (mean) HRC	Acceptance limit HRC	Uncertainty
		Point 1	Point 2	Point 3			
1	Surface	64	65	64	64	---	---
2	1Cm from surface	64	64	64	64	---	---
3	2Cm from surface	64	65	65	65	---	---
4	3Cm from surface	63	63	64	63	---	---
5	4Cm from surface	60	61	61	61	---	---

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