



CERTIFICATE OF ASSAY

REFERENCE :	1	DATE: 1401.10.09	PAGE: 1
CLIENT :	شرکت تماس	DATE OF SAMPLE RECEIPT:	
		MATERIAL DESCRIBE AS :	Metal
CLIENT REFERENCE :		ASSAY STATE :	

Sample No.	1	2	3	4	5	Methods of Analysis
P(PPM)	<1	<1	<1	<1	<1	OES
S(PPM)	6.9	3.0	6.4	5.2	5.1	
Te(PPM)	2.8	3.7	2.9	2.5	<1.2	
As(PPM)	<1	<1	<1	<1	<1	
Se(PPM)	0.5	<0.4	0.44	0.5	<0.4	
Sb(PPM)	1.3	1.2	1.2	1.5	<1	
Cd(PPM)	<0.2	<0.2	<0.2	<0.2	2.8	
Cr(PPM)	<1	<1	<1	<1	<1	
Pb(PPM)	8.2	<1	2.5	5.7	24.0	
Si(PPM)	<1	<1	<1	<1	<1	
Bi(PPM)	<0.6	1.6	1.4	0.9	1.0	
Ag(PPM)	0.3	<0.2	<0.2	0.24	1.7	
Zn(PPM)	2.0	3.5	1.6	1.1	<1	
Ni(PPM)	<1	<1	<1	<1	<1	
Co(PPM)	<2	<2	<2	<2	<2	
Fe(PPM)	2.2	<1	<1	<1	<1	
Mn(PPM)	1.2	1.1	1.1	1.2	1.6	
Sn(PPM)	<1	<1	<1	<1	<1	
%Cu	99.996	99.997	99.997	99.996	99.994	

Zahra Fathi
Technical manager of Laboratories
Sarcheshmeh Copper Complex Test Laboratories

Mahdi Eshkan Nelas
Head of Laboratories
Sarcheshmeh Copper Complex Test Laboratories

Note : The test results apply only to the tested objects and the test report is not to be reproduced , whether in full or in part , without permission of the laboratories .

Sarcheshmeh Copper Complex Test Laboratories
NICICO- National Iranian Copper Industries Co.
Rafsanjan - Kerman Province-Iran

Tel./Fax/E-mail: 0098(0)3434303116-17, 0098(0)3434303102, laboratories@niclco.com

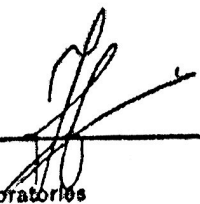
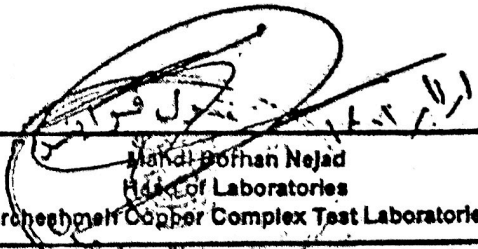
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REFERENCE :	1	DATE :	1401.10.09	PAGE :	2
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		ASSAY STATE :			

Sample No.	6	7	8	9	10	Methods of Analysis
P(PPM)	<1	<1	<1	<1	<1	OES
S(PPM)	4.5	4.6	4.9	6.8	6.5	
Te(PPM)	3.2	1.8	<1/2	<1.2	1.3	
As(PPM)	<1	<1	<1	<1	<1	
Se(PPM)	<0.4	0.42	<0.4	0.44	<0.4	
Sb(PPM)	1.3	1.23	1.3	<1	1.35	
Cd(PPM)	<0.2	<0.2	1.4	1.5	<0.2	
Cr(PPM)	<1	<1	<1	1.1	<1	
Pb(PPM)	<1	<1	14.0	19	3.5	
Si(PPM)	<1	<1	<1	<1	<1	
Bi(PPM)	1.5	0.74	1.4	1.7	1.3	
Ag(PPM)	<0.2	<0.2	1.1	1.7	0.23	
Zn(PPM)	1.9	2.3	<1	<1	<1	
Ni(PPM)	<1	<1	<1	<1	<1	
Co(PPM)	<2	<2	<2	<2	<2	
Fe(PPM)	<1	<1	5.2	1.9	<1	
Mn(PPM)	1.1	1.1	1.5	1.8	1.2	
Sr(PPM)	<1	<1	<1	<1	<1	
%Cu	99.997	99.997	99.995	99.994	99.997	

 Zahra Fathi Technical manager of Laboratories Sarcheshmeh Copper Complex Test Laboratories	 Mahdi Borhan Nejad Head of Laboratories Sarcheshmeh Copper Complex Test Laboratories
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Sarcheshmeh Copper Complex Test Laboratories
 NICICO- National Iranian Copper Industries Co.
 Rafsanjan - Kerman Province-Iran
 Tel /Fax/E-mail: 0098(0)3434303116-17, 0098(0)3434303102, laboratories@nicico.com



CERTIFICATE OF ASSAY

REFERENCE: 1	DATE: 1401.10.09	PAGE: 3
CLIENT: شرکت تماس	DATE OF SAMPLE RECEIPT:	MATERIAL DESCRIBE AS: Metal
CLIENT REFERENCE:	ASSAY STATE:	

Sample No.	11	12	Methods of Analysis
P(PPM)	<1	<1	OES
S(PPM)	4.5	9.2	
Tc(PPM)	3.1	2.5	
As(PPM)	<1	<1	
Se(PPM)	<0.4	<0.4	
Sb(PPM)	1.1	<1	
Cd(PPM)	<0.2	<0.2	
Cr(PPM)	<1	<1	
Pb(PPM)	<1	<1	
Si(PPM)	<1	<1	
Bi(PPM)	1.5	<0.6	
Ag(PPM)	<0.2	<0.2	
Zn(PPM)	1.5	1.3	
Ni(PPM)	<1	<1	
Co(PPM)	<2	<2	
Fe(PPM)	<1	<1	
Mn(PPM)	1.2	1.1	
Sn(PPM)	<1	<1	
%Cu	99.997	99.997	

Zahra Fathi
Technical manager of Laboratories
Sarcheshmeh Copper Complex Test Laboratories

Mahdi Borhan Nejad
Head of Laboratories
Sarcheshmeh Copper Complex Test Laboratories

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آنالیز کاتد مس شرکت تماس

نوع عنصر	عیار		
	MAX	MIN	
P(PPM)	1	-----	
S(PPM)	9.2		
Te(PPM)	3.7		
As(PPM)	1		
Se(PPM)	0.5		
Sb(PPM)	1.5		
Cd(PPM)	2.8		
Cr(PPM)	1.1		
Pb(PPM)	24.0		
Si(PPM)	1		
Bi(PPM)	1.7		
Ag(PPM)	1.7		
Zn(PPM)	3.5		
Ni(PPM)	1		
Co(PPM)	2		
Fe(PPM)	5.2		
Mn(PPM)	1.8		
Sn(PPM)	1		
Cu(%)	-----		99.994