Test Report On Chemical Properties Of Micro Silica

ACES Client	Osos Middle East Mining Materials Trading	**Report No.**	KR.MMR26025893
Consultant	N.P	**Date Reported**	22-Oct-26
Contractor	N.P	**Sample No.**	KR.MMS26005600
Owner	N.P	**Request No.**	KR.MMO26003928
Sample Description	MICROSILICA	**Sampled By**	CLIENT'S REP.
Source	N.P	**Sampling Date**	11-Oct-26
Sample Location	N.P	**Sample Size**	1
Test Method	See Table Below	**Date Tested**	21-Oct-26
Remarks	N.P	**Tested By**	Soundara Rajan

Parameters	Unit	Method	Results	Requirement ASTM C1240-15 (%), Table-1
Loss On Ignition	%	ASTM C311	1.1	6.0 Max
Moisture content	%		0.36	3.0 Max
Calcium oxide, CaO	%	Wavelength dispersive X-ray fluorescence (ASTM E1621-21)	0.58	-
Silicon Oxide, SiO_2	%		93.17	85.0 Min
Aluminum Oxide, Al_2O_3	%		4.12	-
Iron Oxide, Fe_2O_3	%		0.16	-
Magnesium Oxide, MgO	%		0.16	-
Sulfur Trioxide, SO_3	%		0.08	-
Chlorine, Cl	%		<0.01	-
Phosphorus pentoxide, P_2O_5	%		0.04	-
Manganese oxide, MnO	%		<0.01	-
Sodium Oxide, Na_2O	%		0.04	-
Potassium Oxide K_2O	%		0.04	-

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Test Report On Physical Properties Of Micro Silica

DENSITY, SPECIFIC GRAVITY, PERCENT RETAINED ON 45-µm (FINENESS)

ACES Client	Osos Middle East Mining Materials Trading	**Report No.**	KR.MMR26025893
Consultant	N.P	**Date Reported**	22-Oct-26
Contractor	N.P	**Sample No.**	KR.MMS26005600
Owner	N.P	**Request No.**	KR.MMO26003928
Sample Description	MICROSILICA	**Sampled By**	CLIENT'S REP.
Source	N.P	**Sampling Date**	11-Oct-26
Sample Location	N.P	**Test Location**	ACES Khobar Lab
Test Method	See Table Below	**Date Tested**	24-Feb-26
Remarks	N.P	**Tested By**	Asharudheen (80025912)

Physical Requirements	**Unit**	**Test Method**	**Result**
1. Density	Kg/m^3	**ASTM C1240**	1330
2. Specific Gravity	Mg/m^3	**ASTM C1240**	2.481

3. Percent Retained on 45-µm (FINENESS)

Test	**Unit**	**Method**	**Result**	**Average**	**Max. Variation from Average**
1	%	**ASTM C430**	**6.52**	**6.48**	**1.14**
2	%		**6.47**		
3	%		**6.54**		
4	%		**6.40**		
5	%		**6.46**		
6	%		**6.43**		
7	%		**6.50**		
8	%		**6.48**		
9	%		**6.55**		
10	%		**6.41**		
Requirement ASTM C1240 Limit				**10% max**	**5% max**

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Test Report On Physical Properties Of Micro Silica

COMPRESSIVE STRENGTH, ACTIVITY INDEX

ACES Client	Osos Middle East Mining Materials Trading	**Report No.**	KR.MMR26025893
Consultant	N.P	**Date Reported**	22-Oct-26
Contractor	N.P	**Sample No.**	KR.MMS26005600
Owner	N.P	**Request No.**	KR.MMO26003928
Sample Description	MICROSILICA	**Sampled By**	CLIENT'S REP.
Source	N.P	**Sampling Date**	11-Oct-26
Sample Location	N.P	**Test Location**	ACES Khobar Lab
Test Method	ASTM C109	**Date Tested**	24-Feb-26
Remarks	N.P	**Tested By**	Asharudheen (80025912)

Control Mixture	Cement (g)	Sand (g)	Water (ml)	Microsilica	Admixture (ml)	Flow (%)
	500	1375	242	-	-	105
Curing Method Water						

Specimen No.	Test age (Days)	Compressive Strength (MPa)	Average Strength (MPa)
1	7	23.4	23.1
2	7	22.7	
3	7	23.2	

Test Mixture	Cement (g)	Sand (g)	Water (ml)	Microsilica	Admixture (ml)	Flow (%)
	450	1375	242	50	0.5	108
Curing Method Water						

Specimen No.	Test age (Days)	Compressive Strength (MPa)	Average Strength (MPa)
1	7	27.9	27.6
2	7	27.2	
3	7	27.6	

Test	Result	ASTM C1240 Limit
Strength Activity Index @ 7 days	119.3%	**105%min**

Notes: 1.the above test(s) is/are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the International Accreditation Service (IAS) according to certificate and scope of accreditation (Tl-512), test(s) marked with "*" is/are not covered under the scope of accreditation 2. the test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein. 3. This test report may not be reproduced in whole or in part, without written approval of ACES

Remarks: The tests result satisfied the above specification

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Rami A. Yaghi
Eastern Region Branch Manager
Arab Company for Laboratories & Soil (ACES)

END OF REPORT

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