

EGYPTPEARLS ABRASIVE
Material Data Sheet for Blasting Application #24

EGYPEARLS Abrasive quartz is manufactured from natural hard rock AMORPHOSILICA, which is used widely in surface blasting of metallic surfaces. The natural material is manufactured using treatment agents to improve the physical and chemical properties of final product for achieving a very good surface preparation of metallic substrate, the product is free from any detrimental matter affecting in bonding of coatings with metallic surfaces, the abrasive sizes are available as per customer requirements on regular basis as been illustrated in grain size table.



1. PRODUCT & SUPPLIER INFORMATION:

Product Name: EGYPTPEARLS ABRASIVE #24
Chemical Formula: SiO₂ (SILICON DIOXIDE)
Product Description: AMORPHOSILICA QUARTZ
Supplier Name: Leaders for Supplies & Trading S.A.E

**Villa No.7119, Street No. 17, Mokattam 11571,
Cairo, EGYPT.**
Telefax: 002 02 250 41 410 - 002 02 250 41 411
Mobile: +2 010 66666 477
E-mail: info@leaders-egy.net
Web-site: www.leaders-egy.net



Factory: VENICE MINERALS & STONES - 2nd INDUSTRIAL ZONE, WADI EL NATRON, BEHEIRA, EGYPT

2. CHEMICAL Specification: (According to SGS Egypt Mineral laboratory)

Constituent	Result %	Ref. Test Method
Moisture	0.02	Bs2975-1988
LOI	0.1	
SiO ₂	99.76	AAS
TiO ₂	0.005	
Al ₂ O ₃	0.01	
Fe ₂ O ₃	0.039	
MnO	0.006	
MgO	0.002	
CaO	0.012	
Na ₂ O	0.008	
K ₂ O	0.006	
P ₂ O ₅	0.007	

3. Physical Characteristics of (According to Egyptian Petroleum Research Institute Exploration Department XRF Lab):

Ser	Test	Test result	Test Method
1	Grain size distribution	Table 1	ASTM – C 136
2	Bulk Density (gm/cm ³)	1.554	ASTM – C 128
3	Moisture content %	0.06	ASTM – C 566
4	Conductivity (us/cm)	14.35	ASTM – D 4940
5	Soluble chloride (ppm)	4.9	ASTM – C 311
6	Hardness	7.01	Moh Scale
7	pH	7.01	ASTM- D1293

Test	Unit	Result
Conductivity at 25° C	uS/cm	14.35
Soluble Chloride	ppm	4.9
TDS	ppm	6.93
Free Silica		0.48 %

4. PHYSICAL PROPERTIES:

Color	White
Shape	Sub-angular to sub-rounded
Purity	99% UP
Durability	Very good
Toxicity	None
Melting Point	1300°C

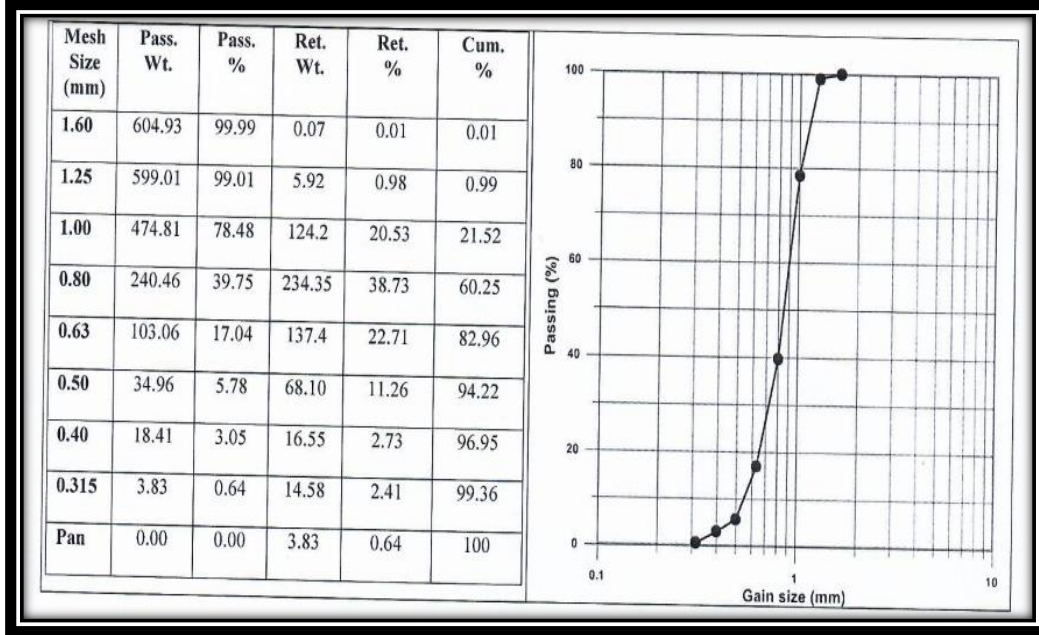
5. SURFACE PREPARATION GRADES:

Degree of Cleanliness	SA 2½ – SA 3
Surface Profile	From 50 µm to 90 µm

6. CHEMICAL Specification: (According to Egyptian Petroleum Research Institute Exploration Department XRF Lab)

Sample No.	(EGYPEARLS #24)
Constituents wt. %	
SiO ₂	99.10
P ₂ O ₅	0.031
Cl ^{tot.}	0.022
K ₂ O	0.081
CaO	0.050
Fe ₂ O ₃ ^{tot.}	0.369
L.O.I	0.27
Trace (ppm)	
S ^{tot.}	243
Cr	780

7. Particle Size Distribution #24 sample (ASTM C – 136 -01) According to Egyptian Petroleum Research Institute Exploration Department XRF Lab:



8. PACKING STANDARD:

- 25 Kg into Packing bags
- 40 Packing bags into 1 Jumbo bag
- Non-Hazardous

We, the Exclusive Supplier, **Leaders for Supplies & Trading S.A.E**

Hereby certify the above-mentioned data is in compliance with test results & analysis done by the Egyptian Petroleum Research Institute & ISO standard according to ISO 11127 & SSPC AB1- NACE Requirements & following ASTM Test Methods.

