



# TECHNICAL DATA SHEET

## SILICA FLOUR

SF74

### General Properties

Silica flour from MAYN is a finely ground product of silica, it plays an essential role in the oil and gas industry. It is mainly used in the cementing operations of wells as a strengthening agent to enhance the mechanical properties. It is also applied in the drilling muds to control viscosity and prevent fluid loss during the drilling processes. It is extracted from the quarries in Egypt, ground, and classified according to the requirements. With high purity, sieves are used to provide the desired particle size distribution. It is used also as an abrasive in polishes and cleaning products, as an additive in soaps, toothpaste, and paints industries. as a reinforcing filler in rubber, plastics, paper, wood fillers industries.

### Chemical Composition

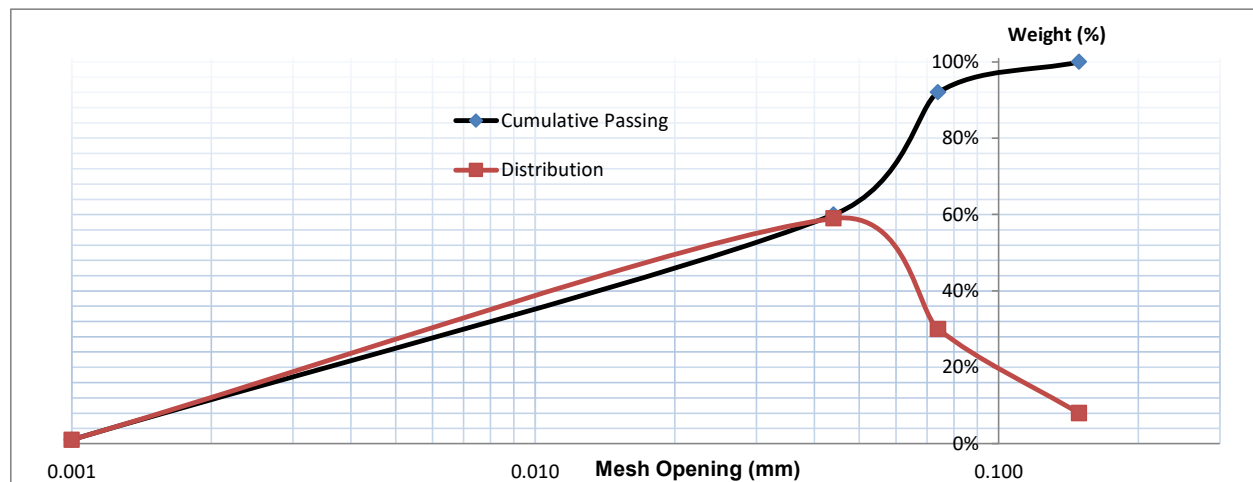
IUPAC Name	Chemical Formula	Weight (%)
Silicon dioxide	SiO <sub>2</sub>	> 99.5%
Iron (III) oxide	Fe <sub>2</sub> O <sub>3</sub>	< 0.040%
Aluminum oxide	Al <sub>2</sub> O <sub>3</sub>	< 0.35%
Calcium oxide	CaO	< 0.10%
Magnesium oxide	MgO	< 0.10%
Potassium oxide	K <sub>2</sub> O	< 0.10%
Titanium dioxide	TiO <sub>2</sub>	< 0.08%
Sodium oxide	Na <sub>2</sub> O	< 0.05%
Loss in Ignition	L.O.I.	< 0.40%

### Particle Size Distribution (PSD)

Particle Size Range	Weight (%)
0.000 – 0.044 mm	> 60.0%
0.044 – 0.074 mm	< 32.0%
0.074 – 0.149 mm	< 8.00%
> 0.149 mm	0

### Type of Packing

Jumbo bag



Sieve	ISO-3310	Tyler	ASTM-E11	BS-410	DIN-4188	Cumulative Weight (%)
44 μM	44 Microns	Mesh 325	No. 325	Mesh 350	0.044 mm	60.00%
74 μM	74 Microns	Mesh 200	No. 200	Mesh 200	0.074 mm	92.00%
149 μM	149 Microns	Mesh 100	No. 100	Mesh 100	0.149 mm	100.00%

Silica flour is a prepared natural product. All data are approximate values and do not represent any warranty

November 2024

**MAYN**

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