

TECHNICAL DATA SILICA FLOUR

SPECIFICATIONS

Common Name	Silica Flour – (Synonym: Quartz Flour)
Mesh/Grit Size	100 Mesh to Micron Sizes
Grain Shape	Fine Powder
Colour	Light Beige
Mohs Hardness	7
Typical Application	Filler for resin systems

(Typical Percent Retained)

U.S. Sieve	#70 / 250	#140/ 106	#200 / 90	#325 / 45
70	3			
100	11	T		
140	8	1	T	
200	14	6	3	
270	9	10	7	T
325	5	8	7	2
Passing 325	50	75	83	98
Totals	100	100	100	100

PARTICLE SIZE

US MESH/GRIT	INCHES	MICRONS*	MILLIMETERS
3	.265	6730	6.73
3.5	.223	5660	5.66
4	.187	4760	4.76
5	.157	4000	4.00
6	.132	3300	3.36
7	.111	2830	2.83
8	.0937	2380	2.38
10	.0787	2000	2.00
12	.0661	1680	1.68
14	.0555	1410	1.41
16	.0409	1190	1.19
18	.0394	1000	1.00
20	.0331	841	.84
25	.0280	707	.71
30	.0232	595	.59
35	.0197	500	.50
40	.0165	420	.42
45	.0138	354	.35
50	.0117	297	.297
60	.0098	250	.250
70	.0083	210	.210
80	.0070	177	.177
100	.0059	149	.149
120	.0049	125	.125
140	.0041	105	.105
170	.0035	88	.088
200	.0024	74	.074
230	.0024	63	.063

TECHNICAL DATA SILICA FLOUR

PARTICLE SIZE (Cont.)

270	.0021	53	.053
325	.0017	44	.044
400	.0015	37	.037

*PROPOSED ISO (INTERNATIONAL) STANDARDS

COMPARISON OF HARDNESS VALUES

<u>Substance</u>	<u>Knoop</u>	<u>Mohs</u>
Talc	-	1
Gypsum	32	2
Cadmium	37	-
Silver	60	-
Zinc	119	-
Calcite	135	3
Flourite	163	4
Copper	163	-
Magnesia	370	-
Apatite	430	5
Glass (Soda Lime)	540	-
Nickel	557	-
Feldspar (Orthoclase)	560	6
Tool Steel (Rockwell C 60.5)	740	-
Quartz	820	7
Chromium	935	-
Zirconia	1160	-
Beryllia	1250	-
Topaz	1340	8
Garnet	1360	-
Alumina Zirconia	1450	-
Zirconium Boride	1550	-
Titanium Nitride	1800	9
Tungsten Carbide	1880	-
Tantalum Carbide	2000	-
Zirconium Carbide	2100	-
Alumina	2100	9
Beryllium Carbide	2410	-
Titanium Carbide	2470	-
Silicon Carbide	2480	-
Aluminum Boride	2500	-
Boron Carbide	2750	-
Diamond	7000	10

Disclaimer The information herein is to the best of our knowledge, correct and complete and is supplied without recommendation or guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Users must, by comprehensive testing, evaluate this product in their own application. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of or reliance on, this information in inappropriate contexts.