

ProductData



Silica - Ground Technical Grade - Min-U-Sil



Authorized Distributor

Applications:

MIN-U-SIL® is a high purity, high quality natural crystalline silica that is available exclusively through U. S. Silica. This ground silica sand is inherently inert, white, bright, has low moisture and is at least 99.2% SiO₂.

Special processing techniques assure controlled particle size distribution, which means elimination of excessive coarse and fine particles. These properties, combined with inertness and inherently low cost, make **MIN-U-SIL®** the best quality filler/extender for a range of applications including paints and coatings, sealants, silicone rubber and epoxy.

Note: Specific product application recommendations are available on request.

US SILICA CODE	Min-U-Sil 5	Min-U-Sil 10	Min-U-Sil 15	Min-U-Sil 30	Min-U-Sil 40
C.A.S. Number	14808-60-7	14808-60-7	14808-60-7	14808-60-7	14808-60-7
TYPICAL CHEMICAL ANALYSIS:					
SiO ₂ - Silica (%)	98.3	98.6	98.5	99.5	99.5
Fe ₂ O ₃ - Ferric Oxide (%)	0.06	0.03	0.03	0.024	0.024
Al ₂ O ₃ - Aluminum Oxide (%)	1.10	1.00	1.00	0.30	0.30
TiO ₂ - Titanium Dioxide (%)	0.02	0.01	0.01	0.01	0.01
CaO - Calcium Oxide (%)	0.04	0.03	0.03	0.02	0.02
MgO - Magnesium Oxide (%)	0.03	0.03	0.01	0.01	0.01
Na ₂ O - Sodium Oxide (%)	0.03	0.01	0.01	0.01	0.01
K ₂ O - Potassium Oxide (%)	0.03	0.01	0.01	0.01	0.01
Loss on Ignition (%)	0.40	0.30	0.04	0.20	0.01
pH Value	6.2	6.8	6.6	6.5	6.5
TYPICAL PHYSICAL PROPERTIES:					
Median Particle Size (microns)	1.7	3.4	5.0	8.2	10.5
Specific Gravity	2.65	2.65	2.65	2.65	2.65
Tapped Density (lbs./ft.3)	41	45	47	65	65
Loose Density (lbs./ft.3)	36	42	44	50	50
Oil Absorption	44	33	30	44	22
Hegman Fineness	7.5	7.0 - 7.5	7.0 - 7.5	5.0	4.0 - 5.0
Mohs Hardness	7.0	7.0	7.0	7.0	7.0
Reflectance (%)	92	92	91	90	90
Yellowness Index	4.2	3.2	3.4	4.0	4.0
% Thru 325 Mesh	99.995	99.995	99.99	99.7	99.2

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Brenntag Specialties, Inc. (BSI). For more information and assistance, contact Technical Services at 1-800-732-0562.

• Brenntag Specialties, Inc. • 1000 Coolidge St. • South Plainfield, NJ 07080 •



ProductData



Silica - Ground Technical Grade - Sil-Co-Sil



Authorized Distributor

Applications:

SIL-CO-SIL® products are produced from high purity silica which is precision ground to top sizes ranging from 40 to 250 microns. These ground silicas are inherently inert, white, bright, have low moisture and are at least 99.4% SiO₂.

Special processing techniques assure controlled particle size distribution, which means elimination of excessive coarse and fine particles. This makes **SIL-CO-SIL®** ground silicas ideal for plastics and rubber, polishes and cleansers, paints, ceramic frits and glazes, fiberglass, precision castings and more.

Note: Specific product application recommendations are available on request.

US SILICA CODE	Sil-Co-Sil 40	Sil-Co-Sil 52	Sil-Co-Sil 63	Sil-Co-Sil 75	Sil-Co-Sil 90	Sil-Co-Sil 125
C.A.S. Number	14808-60-7	14808-60-7	14808-60-7	14808-60-7	14808-60-7	14808-60-7
TYPICAL CHEMICAL ANALYSIS:						
SiO ₂ - Silica (%)	99.7	99.5	99.5	99.5	99.5	99.5
Fe ₂ O ₃ - Ferric Oxide (%)	0.0217	0.022	0.022	0.022	0.022	0.022
Al ₂ O ₃ - Aluminum Oxide (%)	0.123	0.30	0.30	0.30	0.30	0.30
TiO ₂ - Titanium Dioxide (%)	0.0096	0.01	0.01	0.01	0.01	0.01
CaO - Calcium Oxide (%)	0.0096	0.02	0.02	0.02	0.02	0.02
MgO - Magnesium Oxide (% max.)	0.01	0.01	0.01	0.01	0.01	0.01
Na ₂ O - Sodium Oxide (%)	0.01	0.01	0.01	0.01	0.01	0.01
K ₂ O - Potassium Oxide (%)	0.01	0.01	0.01	0.01	0.01	0.01
Loss on Ignition (%)	0.1	0.02	0.02	0.02	0.02	0.02
pH Value	7.0	7.0	7.0	7.0	7.0	7.0
TYPICAL PHYSICAL PROPERTIES:						
Specific Gravity	2.65	2.65	2.65	2.65	2.65	2.65
Mohs Hardness	7.0	7.0	7.0	7.0	7.0	7.0
Reflectance (%)	80	89	88.5	88	87.5	87.5
Yellowness Index	3.7	3.8	4.0	4.3	4.3	4.4
% Thru 325 Mesh	96.9	95.5	94.0	88.0	80.0	79.0
% Thru 200 Mesh	100	99.7	99.5	98.5	94.8	94.0

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Brenntag Specialties, Inc. (BSI). For more information and assistance, contact Technical Services at 1-800-732-0562.

• Brenntag Specialties, Inc. • 1000 Coolidge St. • South Plainfield, NJ 07080 •

