



Colorado Springs Operation

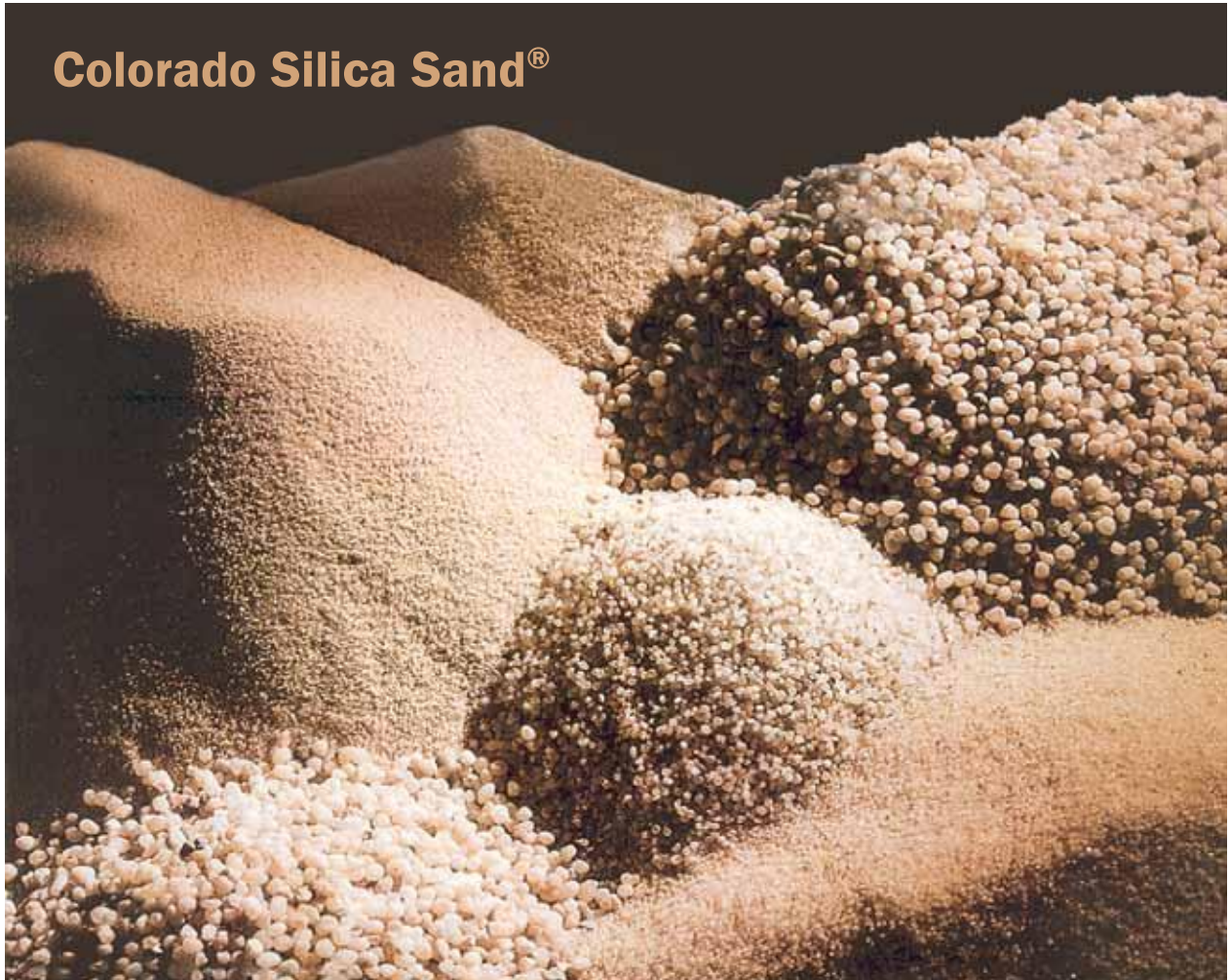
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Colorado Silica Sand®



Typical Specifications

U.S. Sieve Sizes - Individual Percent Weight Retained

6/9		8/12		8/16		10/16		10/20		12/20		16/30		20/40		30/70		100 Mesh		Traction Sand	
Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%	Sieve	%
5	0-5	6	0-1	8	0-5	8	0-1	8	0-1	10	0-1	14	0-1	16	0-1	25	0-1	50	1-6	30	50-70
6	0-5	8	0-5	10	14-24	10	0-5	10	0-5	12	5-15	16	0-5	20	0-1	30	0-5	60	10-15	40	0-40
7	8-18	10	50-60	12	24-38	12	35-55	12	3-18	14	30-50	18	25-45	25	5-10	40	15-20	70	15-20	50	0-30
8	49-59	12	32-42	14	30-40	14	40-60	14	30-40	16	20-40	20	23-33	30	28-57	50	35-58	100	30-35	60	5-20
10	20-30	14	0-5	16	5-15	16	0-5	16	30-40	18	10-20	25	15-20	35	30-40	60	15-28	140	15-25	70	5-15
12	0-5	16	0-1	18	0-5	18	0-1	18	10-20	20	0-5	30	5-15	40	15-27	70	5-10	200	5-10	100	5-10
—	—	—	—	—	—	—	—	20	0-5	25	0-1	35	0-5	45	5-10	100	0-10	—	—	—	—
—	—	—	—	—	—	—	—	25	0-1	—	—	—	—	—	—	—	—	—	—	—	—
Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1	Pan	0-1
E.S. (mm)	2.0-3.0	E.S. (mm)	1.7-2.0	E.S. (mm)	1.40-1.65	E.S. (mm)	1.25-1.45	E.S. (mm)	1.10-1.15	E.S. (mm)	0.95-1.15	E.S. (mm)	0.60-0.75	E.S. (mm)	0.40-0.50	E.S. (mm)	0.15-0.25	E.S. (mm)	0.09-0.15	E.S. (mm)	—
U.C.	<1.40	U.C.	<1.40	U.C.	<1.40	U.C.	<1.30	U.C.	<1.50	U.C.	<1.40	U.C.	<1.60	U.C.	<1.45	U.C.	<2.5	U.C.	<2.0	U.C.	—

Custom Gradations Available

Typical Physical Properties

Mineral.....	Quartz	Specific Gravity	2.62+
pH.....	Neutral (7.0)	LOI (Loss on Ignition).....	<0.4
Roundness	0.6+	Unit Weight.....	100 lbs. ≈ One Cubic Foot
Sphericity.....	0.7+	AWWA Acid Solubility	<1.0%
Hardness	7.0	Porosity.....	44%+

Typical Chemical Analyses

	6/9	8/12	8/16	10/20	12/20	16/30	20/40	30/70	100 Mesh
SiO ₂ (Silicon Dioxide)	96.67	96.83	94.05	95.26	94.66	94.06	90.32	82.69	80.11
Fe ₂ O ₃ (Iron Oxide)	0.06	0.06	n/a	0.04	0.08	0.12	0.18	0.41	1.06
Al ₂ O ₃ (Aluminum Oxide)	0.85	1.11	n/a	1.16	1.91	2.7	5.06	9.86	10.7
TiO ₂ (Titanium Dioxide)	0.04	0.06	n/a	0.05	0.02	0.04	0.03	0.14	0.55
CaO (Calcium Oxide)	0.02	0.02	n/a	0.01	0.03	0.04	0.06	0.12	0.25
MgO (Magnesium Oxide)	<0.01	<0.01	n/a	<0.01	0.03	0.02	0.02	0.03	0.05
K ₂ O (Potassium Oxide)	0.86	0.59	n/a	0.66	0.87	1.44	2.73	3.8	6.92
Na ₂ O (Sodium Oxide)	0.14	0.11	n/a	0.12	0.22	0.29	0.42	0.57	0.73

Colorado Silica Sand® Meets AWWA-A100 and B100 standards; NSF-61 certification

WARNING

**CONTAINS FREE (RESPIRABLE) SILICA
DO NOT BREATHE DUST FROM THIS PRODUCT
NEVER USE FOR SAND BLASTING**

This material contains fine (respirable) silica dust. If you inhale dust from this product, you may develop silicosis, a severe, irreversible lung disease that can cause death. The National Institute for Occupational Safety and Health (NIOSH), the International Agency for Research on Cancer (IARC) and the American Thoracic Society (ATS) link inhalation of silica dust to lung cancer. Medical reports link inhalation of silica dust to crippling arthritis. Exposure may cause skin and eye irritation.

NEVER USE THIS MATERIAL WITHOUT APPROVED RESPIRATORY PROTECTIVE EQUIPMENT

For approved respiratory protective equipment, refer to the National Institute for Occupational Safety and Health (NIOSH), the Occupational Safety and Health Act (OSHA) and the Mine Safety and Health Act (MSHA). See applicable Federal Laws:

29 CFR §1910.134 and 29 CFR §1910.1000

DISCLAIMER

The technical data contained herein is subject to change without notice and does not represent a commitment on the part of Premier Silica or its representatives. Over time and even within the same shipment, product gradations as well as physical and chemical characteristics may fluctuate due to natural variations in the raw product. It is recommended that the user request current technical data before making any design decisions.

Market Overview

Markets Served

MARKETS	APPLICATIONS
● ENERGY.....	– Oil and Gas Well Fracturing – Well Pack
● BUILDING MATERIALS....	– Stucco – Grouts/thinsets – Flooring
● RECREATION.....	– Golf Courses – Horse Tracks/Arenas – Sports Field Construction – Artificial Turf – Playgrounds/Parks
● ENVIRONMENTAL.....	– Water and Wastewater Filtration – Swimming Pool Filtration – Well Pack – Geothermal Grouts
● INDUSTRIAL.....	– Traction – Grinding Media

Transportation Options

- Bulk shipments can be made by end dump, belly dump and pneumatic trucks or rail car
- The Premier Silica Colorado Springs Plant is served by major highways and two rail lines:
Union Pacific and Burlington Northern



Photo courtesy Walpole, Inc.

Packaging Options

- Packaged in 50 lb. bags, 3,000 lb. and 4,000lb. super sacks.



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Complete Network of Premier Silica Facilities

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about a Premier Silica
location near you:

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