

TAVERSIL™

T180

Specialty precipitated Silica in Oral Care Application

Tata Chemical's specialty grades of silica can be used as thickening agent in toothpaste for improved thixotropic properties. It is ideal for transparent gel formulation with high viscosity build up. It maintains formulation stability, with improved smoothness and clarity.

TECHNICAL DATA SHEET

Product
Precipitated Silica (Thickening Grade)
Package Size : 20 kg HDPE bags
CAS Number
7631-86-9
Country of origin
INDIA

Product Specifications*

Particle Properties	Unit(s)	Value	Analysis Method
Physical Appearance		Free flowing white Powder	Visual
Specific Surface Area	m ² /g	180 ± 10	ASTM D5604
Bulk Density	g/l	100 ± 20	ASTM C1240
pH value (5 % in water)		6.5 ± 0.8	ISO 787-9
SiO ₂ Content	%	> 97	ISO 3262-19
DOA Absorption Value	ml/100 g SiO ₂	270 ± 50	ASTM D6854
Heat Loss (2 hrs at 105 °C)	%	4.5 - 7	ISO 787/2
Sieve Residue on 325 mesh	%	0.5 - 1.5	ISO 3262-19
Soluble Salts (as Na ₂ SO ₄)	%	< 2.5	Internal method
Iron	ppm	< 400	Internal method
Water Absorption Value	ml/100g	260 ± 20	Internal method
Total Bacterial Count	cfu	< 300	Internal method
Yeast & Mould Count	cfu	< 100	Internal method

*Storage & transport: To be protected from damp & sunlight. Additional particle property measurement data can be supplied on request.

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A50

Specialty precipitated Silica in Oral Care Application

Tata Chemical's specialty grades of silica can be used as medium abrasive agent in toothpaste for improved cleaning & polishing performance with tailor-made abrasive properties. It can be used with transparent gel for better whitening and cleaning effect.

TECHNICAL DATA SHEET

Product
Precipitated Silica (Abrasive Grade)
Package Size : 20 kg HDPE bags
CAS Number
7631-86-9
Country of origin
INDIA

Product Specifications*

Particle Properties	Unit(s)	Value	Analysis Method
Physical Appearance		Free flowing white Powder	Visual
Specific Surface Area	m ² /g	50 ± 15	ASTM D5604
Bulk Density	g/l	300 ± 50	ASTM C1240
pH value (5 % in water)		6.5 ± 0.8	ISO 787-9
SiO ₂ Content	%	> 97	ISO 3262-19
DOA Absorption Value	ml/100 g SiO ₂	100± 30	ASTM D6854
Heat Loss (2 hrs at 105 °C)	%	4.5 - 7	ISO 787/2
Sieve Residue on 325 mesh	%	0.5 - 2.0	ISO 3262-19
Soluble Salts (as Na ₂ SO ₄)	%	< 2.5	Internal method
Iron	ppm	< 400	Internal method
Linseed oil absorption value	ml/100g	100 ± 20	Internal method
Fluoride compatibility	-	YES	Internal method
Total Bacterial Count	cfu	< 300	Internal method
Yeast & Mould Count	cfu	< 100	Internal method

*Storage & transport: To be protected from damp & sunlight. Additional particle property measurement data can be supplied on request.

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180F

Specialty precipitated Silica for Food & Nutrition Application

Tata Chemical's specialty grade silica can be used in almost all powder food products for easy handling and processing. Silica improves the flowability, reduces caking tendency, absorbs oils and fats and serves as dry lubricant. Our specialty grade silica also can be used as carrier for delivery of nutrients.

Tata Chemical's specialty grade silica can be used for processing beers and juices to improved product clarity. It further enhances chemical and physical properties of such beverage products.

TECHNICAL DATA SHEET

Product
Precipitated Silica
Package Size : 20 kg HDPE bags
CAS Number
7631-86-9
Country of origin
INDIA

Product Specifications*

Particle Properties	Unit(s)	Value	Analysis Method
Physical Appearance		Free flowing white Powder	Visual
Specific Surface Area	m ² /g	180 ± 10	ASTM D5604
Bulk Density	g/l	100 ± 30	ASTM C1240
pH value (5 % in water)		6.5 ± 0.8	ISO 787-9
SiO ₂ Content	%	> 97	ISO 3262-19
DOA Absorption Value	ml/100 g SiO ₂	270 ± 50	ASTM D6854
Heat Loss (2 hrs at 105 °C)	%	4.5 - 7	ISO 787/2
Sieve Residue on 325 mesh	%	< 1.5	ISO 3262-19
Soluble Salts (as Na ₂ SO ₄)	%	< 2.5	Internal method
Iron	ppm	< 400	Internal method
Total Bacterial Count	cfu	< 300	Internal method
Yeast & Mould Count	cfu	< 100	Internal method

*Storage & transport: To be protected from damp & sunlight. Additional particle property measurement data can be supplied on request.

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100

Specialty precipitated Silica for Agricultural Applications

Tata Chemical's specialty grade silica can be used in pesticides applications as carrier, anticaking, grinding aid & free flowing agent. Silica particles can absorb, disperse and stabilise agri-active ingredients. Controlled particle size distribution helps hassle free nozzle spray of pesticides at farms.

TECHNICAL DATA SHEET

Product
Precipitated Silica
Package Size : 20 kg HDPE bags
CAS Number
7631-86-9
Country of origin
INDIA

Product Specifications*

Particle Properties	Unit(s)	Value	Analysis Method
Physical Appearance		Free flowing white Powder	Visual
Specific Surface Area	m ² /g	180 ± 10	ASTM D5604
Bulk Density	g/l	110 ± 30	ASTM C1240
pH value (5 % in water)		6.5 ± 0.8	ISO 787-9
SiO ₂ Content	%	> 97	ISO 3262-19
DOA Absorption Value	ml/100 g SiO ₂	270 ± 50	ASTM D6854
Heat Loss (2 hrs at 105 °C)	%	4.5 - 7	ISO 787/2
Sieve Residue on 325 mesh	%	< 1.5	ISO 3262-19
Soluble Salts (as Na ₂ SO ₄)	%	< 2.5	Internal method
Iron	ppm	< 400	Internal method

*Storage & transport: To be protected from damp & sunlight. Additional particle property measurement data can be supplied on request.

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220

Specialty precipitated Silica for Agricultural Applications

Tata Chemical's specialty grade silica can be used in pesticides applications as carrier, anticaking, grinding aid & free flowing agent. Silica particles can absorb, disperse and stabilise agri-active ingredients. Controlled particle size distribution helps uniform grinding of active ingredients in the formulation.

TECHNICAL DATA SHEET

Product
Precipitated Silica
Package Size : 25 kg HDPE bags
CAS Number
7631-86-9
Country of origin
INDIA

Product Specifications*

Particle Properties	Unit(s)	Value	Analysis Method
Physical Appearance		Free flowing white Powder	Visual
Specific Surface Area	m ² /g	180 ± 10	ASTM D5604
Bulk Density	g/l	220 ± 30	ASTM C1240
pH value (5 % in water)		6.5 ± 0.8	ISO 787-9
SiO ₂ Content	%	> 97	ISO 3262-19
DOA Absorption Value	ml/100 g SiO ₂	270 ± 50	ASTM D6854
Heat Loss (2 hrs at 105 °C)	%	4.5 - 7	ISO 787/2
Sieve Residue on 325 mesh	%	< 1.5	ISO 3262-19
Soluble Salts (as Na ₂ SO ₄)	%	< 2.5	Internal method
Iron	ppm	< 400	Internal method

*Storage & transport: To be protected from damp & sunlight. Additional particle property measurement data can be supplied on request.