

VISTAMATT

A VISTA BRAND

Product Technical Data Handbook

Silica Matting Agents for Coatings

Complete TDS collection — 26 grades across waterborne wood, UV wood and panel, industrial and metal, deep matte, soft-touch, leather, printing inks, textile coatings and film anti-block applications.

Grade designation: grades are designated VS... (for example VS660, VS171S). This replaces the former Vista... designation; the products, specifications and manufacturing are unchanged — VS660 is the grade formerly listed as Vista-660.

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VS1650A

Application: Deep-matte finishes

Product description

VS1650A is a synthetic amorphous silica matting agent produced by Vistamatt for deep-matte finishes. Primary deep matte route for first screening. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	6.2-6.5 μm	Laser diffraction
Particle size D10	4.5 μm	Laser diffraction
Particle size D90	8.2 μm	Laser diffraction
SiO ₂ content	96.2 %	Dry basis
Specific surface area	112 m ² /g	BET
Oil absorption	162 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.3	DIN ISO 787-9
Loss on drying	5.5 %	2 h at 105 °C
Tamped bulk density	0.38 g/cm ³	DIN ISO 787-11
Whiteness	93.5	Ry value
Recommended dosage	3-6 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	2-8 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS3851

Application: Deep-matte, flexible & leather coatings

Product description

VS3851 is a synthetic amorphous silica matting agent produced by Vistamatt for deep-matte, flexible & leather coatings. Introduced only where a demanding low-gloss target is defined. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	8.5-9.0 µm	Laser diffraction
Particle size D10	6.5 µm	Laser diffraction
Particle size D90	11.0 µm	Laser diffraction
SiO ₂ content	96.0 %	Dry basis
Specific surface area	95 m ² /g	BET
Oil absorption	140 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.2	DIN ISO 787-9
Loss on drying	5.8 %	2 h at 105 °C
Tamped bulk density	0.40 g/cm ³	DIN ISO 787-11
Whiteness	93.0	Ry value
Recommended dosage	2-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	2-10 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS1351

Application: Film Anti-Block

Product description

VS1351 is a synthetic amorphous silica matting agent produced by Vistamatt for film anti-block. Plastic film opening and anti-blocking. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	5.50 μm	Laser diffraction
SiO ₂ content	96.5 %	Dry basis
Specific surface area	130 m ² /g	BET
Oil absorption	170 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.3	DIN ISO 787-9
Loss on drying	5.5 %	2 h at 105 °C
Tamped bulk density	0.37 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS1551

Application: Film Anti-Block

Product description

VS1551 is a synthetic amorphous silica matting agent produced by Vistamatt for film anti-block. Plastic film opening and anti-blocking. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	6.00 μm	Laser diffraction
SiO ₂ content	96.2 %	Dry basis
Specific surface area	118 m ² /g	BET
Oil absorption	158 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.2	DIN ISO 787-9
Loss on drying	5.6 %	2 h at 105 °C
Tamped bulk density	0.38 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS331S

Application: Flexible & soft-touch coatings

Product description

VS331S is a synthetic amorphous silica matting agent produced by Vistamatt for flexible & soft-touch coatings. Fine particle route for surface refinement and feel. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.2-3.5 µm	Laser diffraction
Particle size D10	2.3 µm	Laser diffraction
Particle size D90	4.5 µm	Laser diffraction
SiO ₂ content	97.0 %	Dry basis
Specific surface area	195 m ² /g	BET
Oil absorption	230 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.5	DIN ISO 787-9
Loss on drying	5.2 %	2 h at 105 °C
Tamped bulk density	0.33 g/cm ³	DIN ISO 787-11
Whiteness	94.0	Ry value
Recommended dosage	3-6 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS341S

Application: Flexible & soft-touch coatings

Product description

VS341S is a synthetic amorphous silica matting agent produced by Vistamatt for flexible & soft-touch coatings. First screen for flexible low-gloss systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	4.1-4.4 µm	Laser diffraction
Particle size D10	3.0 µm	Laser diffraction
Particle size D90	5.6 µm	Laser diffraction
SiO ₂ content	96.5 %	Dry basis
Specific surface area	145 m ² /g	BET
Oil absorption	185 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.3	DIN ISO 787-9
Loss on drying	5.5 %	2 h at 105 °C
Tamped bulk density	0.36 g/cm ³	DIN ISO 787-11
Whiteness	93.5	Ry value
Recommended dosage	2-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS370T

Application: Flexible & soft-touch coatings

Product description

VS370T is a synthetic amorphous silica matting agent produced by Vistamatt for flexible & soft-touch coatings. Deeper matte within flexible systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	7.0-7.3 μm	Laser diffraction
Particle size D10	5.2 μm	Laser diffraction
Particle size D90	9.2 μm	Laser diffraction
SiO ₂ content	96.3 %	Dry basis
Specific surface area	102 m ² /g	BET
Oil absorption	152 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.2	DIN ISO 787-9
Loss on drying	5.7 %	2 h at 105 °C
Tamped bulk density	0.39 g/cm ³	DIN ISO 787-11
Whiteness	93.4	Ry value
Recommended dosage	2-4 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS361C

Application: Industrial & deep-matte coatings

Product description

VS361C is a synthetic amorphous silica matting agent produced by Vistamatt for industrial & deep-matte coatings. General matte with stable appearance. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	6.2-6.5 μm	Laser diffraction
Particle size D10	4.5 μm	Laser diffraction
Particle size D90	8.3 μm	Laser diffraction
SiO ₂ content	96.2 %	Dry basis
Specific surface area	115 m ² /g	BET
Oil absorption	165 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.4	DIN ISO 787-9
Loss on drying	5.5 %	2 h at 105 °C
Tamped bulk density	0.38 g/cm ³	DIN ISO 787-11
Whiteness	93.6	Ry value
Recommended dosage	2-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	8-25 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS171S

Application: Industrial & metal coatings

Product description

VS171S is a synthetic amorphous silica matting agent produced by Vistamatt for industrial & metal coatings. First screen for industrial and coil routes. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	7.0-7.5 μm	Laser diffraction
Particle size D10	5.2 μm	Laser diffraction
Particle size D90	9.4 μm	Laser diffraction
SiO ₂ content	96.5 %	Dry basis
Specific surface area	100 m ² /g	BET
Oil absorption	150 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.3	DIN ISO 787-9
Loss on drying	5.6 %	2 h at 105 °C
Tamped bulk density	0.39 g/cm ³	DIN ISO 787-11
Whiteness	93.5	Ry value
Recommended dosage	2-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	10-25 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS381C

Application: Industrial & metal coatings

Product description

VS381C is a synthetic amorphous silica matting agent produced by Vistamatt for industrial & metal coatings. Screening toward lower gloss. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	8.0-8.3 µm	Laser diffraction
Particle size D10	6.3 µm	Laser diffraction
Particle size D90	10.2 µm	Laser diffraction
SiO ₂ content	95.8 %	Dry basis
Specific surface area	82 m ² /g	BET
Oil absorption	125 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.1	DIN ISO 787-9
Loss on drying	5.9 %	2 h at 105 °C
Tamped bulk density	0.42 g/cm ³	DIN ISO 787-11
Whiteness	92.8	Ry value
Recommended dosage	2-4 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS391C

Application: Industrial & metal coatings

Product description

VS391C is a synthetic amorphous silica matting agent produced by Vistamatt for industrial & metal coatings. High matting efficiency for specific low-gloss targets. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	9.0-9.5 µm	Laser diffraction
Particle size D10	7.2 µm	Laser diffraction
Particle size D90	11.5 µm	Laser diffraction
SiO ₂ content	95.5 %	Dry basis
Specific surface area	70 m ² /g	BET
Oil absorption	110 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.0	DIN ISO 787-9
Loss on drying	6.0 %	2 h at 105 °C
Tamped bulk density	0.44 g/cm ³	DIN ISO 787-11
Whiteness	92.5	Ry value
Recommended dosage	1-3 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	3-10 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS131A

Application: Leather & synthetic leather finishes

Product description

VS131A is a synthetic amorphous silica matting agent produced by Vistamatt for leather & synthetic leather finishes. General route for natural matte and fine surfaces. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.2-3.5 µm	Laser diffraction
Particle size D10	2.4 µm	Laser diffraction
Particle size D90	4.6 µm	Laser diffraction
SiO ₂ content	97.5 %	Dry basis
Specific surface area	185 m ² /g	BET
Oil absorption	220 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.8	DIN ISO 787-9
Loss on drying	5.0 %	2 h at 105 °C
Tamped bulk density	0.32 g/cm ³	DIN ISO 787-11
Whiteness	94.5	Ry value
Recommended dosage	2-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS321A

Application: Leather & synthetic leather finishes

Product description

VS321A is a synthetic amorphous silica matting agent produced by Vistamatt for leather & synthetic leather finishes. High surface area route for specific finishing systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	2.1-2.4 μm	Laser diffraction
Particle size D10	1.5 μm	Laser diffraction
Particle size D90	3.2 μm	Laser diffraction
SiO ₂ content	98.0 %	Dry basis
Specific surface area	280 m ² /g	BET
Oil absorption	280 g/100 g	DIN ISO 787-5
pH (5 % suspension)	7.0	DIN ISO 787-9
Loss on drying	4.8 %	2 h at 105 °C
Tamped bulk density	0.28 g/cm ³	DIN ISO 787-11
Whiteness	95.0	Ry value
Recommended dosage	4-8 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VSKD721

Application: Leather & synthetic leather finishes

Product description

VSKD721 is a synthetic amorphous silica matting agent produced by Vistamatt for leather & synthetic leather finishes. Finer route for refinement and suppleness. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	2.1-2.4 µm	Laser diffraction
Particle size D10	1.5 µm	Laser diffraction
Particle size D90	3.1 µm	Laser diffraction
SiO ₂ content	98.2 %	Dry basis
Specific surface area	290 m ² /g	BET
Oil absorption	290 g/100 g	DIN ISO 787-5
pH (5 % suspension)	7.1	DIN ISO 787-9
Loss on drying	4.6 %	2 h at 105 °C
Tamped bulk density	0.27 g/cm ³	DIN ISO 787-11
Whiteness	95.2	Ry value
Recommended dosage	4-8 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS350C

Application: Printing Inks

Product description

VS350C is a synthetic amorphous silica matting agent produced by Vistamatt for printing inks. Low-gloss gravure and coated ink systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.20 μm	Laser diffraction
SiO ₂ content	97.5 %	Dry basis
Specific surface area	200 m ² /g	BET
Oil absorption	240 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.7	DIN ISO 787-9
Loss on drying	5.0 %	2 h at 105 °C
Tamped bulk density	0.31 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS360C

Application: Printing Inks

Product description

VS360C is a synthetic amorphous silica matting agent produced by Vistamatt for printing inks. Low-gloss gravure and coated ink systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.60 μm	Laser diffraction
SiO ₂ content	97.3 %	Dry basis
Specific surface area	180 m ² /g	BET
Oil absorption	220 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.6	DIN ISO 787-9
Loss on drying	5.1 %	2 h at 105 °C
Tamped bulk density	0.32 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS3651D

Application: Textile Coatings

Product description

VS3651D is a synthetic amorphous silica matting agent produced by Vistamatt for textile coatings. Textile coatings and functional surface finishes. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	4.00 μm	Laser diffraction
SiO ₂ content	96.8 %	Dry basis
Specific surface area	160 m ² /g	BET
Oil absorption	200 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.4	DIN ISO 787-9
Loss on drying	5.3 %	2 h at 105 °C
Tamped bulk density	0.34 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS370A

Application: Textile Coatings

Product description

VS370A is a synthetic amorphous silica matting agent produced by Vistamatt for textile coatings. Textile coatings and functional surface finishes. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.80 μm	Laser diffraction
SiO ₂ content	97.0 %	Dry basis
Specific surface area	170 m ² /g	BET
Oil absorption	210 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.5	DIN ISO 787-9
Loss on drying	5.2 %	2 h at 105 °C
Tamped bulk density	0.33 g/cm ³	DIN ISO 787-11
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS3550U

Application: UV wood coatings (roller application)

Product description

VS3550U is a synthetic amorphous silica matting agent produced by Vistamatt for uv wood coatings (roller application). High surface area route; first screen for roller application. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	5.5-6.0 µm	Laser diffraction
Particle size D10	4.0 µm	Laser diffraction
Particle size D90	7.5 µm	Laser diffraction
SiO ₂ content	96.5 %	Dry basis
Specific surface area	125 m ² /g	BET
Oil absorption	170 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.3	DIN ISO 787-9
Loss on drying	5.4 %	2 h at 105 °C
Tamped bulk density	0.37 g/cm ³	DIN ISO 787-11
Whiteness	93.5	Ry value
Recommended dosage	1-3 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS370U

Application: UV wood coatings (roller application)

Product description

VS370U is a synthetic amorphous silica matting agent produced by Vistamatt for uv wood coatings (roller application). Compare matting depth against surface uniformity. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	7.0-7.3 µm	Laser diffraction
Particle size D10	5.2 µm	Laser diffraction
Particle size D90	9.2 µm	Laser diffraction
SiO ₂ content	96.3 %	Dry basis
Specific surface area	105 m ² /g	BET
Oil absorption	155 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.4	DIN ISO 787-9
Loss on drying	5.6 %	2 h at 105 °C
Tamped bulk density	0.38 g/cm ³	DIN ISO 787-11
Whiteness	93.8	Ry value
Recommended dosage	1-3 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS6907

Application: UV wood coatings (roller application)

Product description

VS6907 is a synthetic amorphous silica matting agent produced by Vistamatt for uv wood coatings (roller application). Held for lower gloss targets. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	8.0-8.5 µm	Laser diffraction
Particle size D10	6.0 µm	Laser diffraction
Particle size D90	10.5 µm	Laser diffraction
SiO ₂ content	96.0 %	Dry basis
Specific surface area	90 m ² /g	BET
Oil absorption	135 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.2	DIN ISO 787-9
Loss on drying	5.8 %	2 h at 105 °C
Tamped bulk density	0.41 g/cm ³	DIN ISO 787-11
Whiteness	93.2	Ry value
Recommended dosage	1-2 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	3-10 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS141S

Application: UV wood coatings (spray application)

Product description

VS141S is a synthetic amorphous silica matting agent produced by Vistamatt for uv wood coatings (spray application). Fine route for spray appearance and surface refinement. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.8-4.0 µm	Laser diffraction
Particle size D10	3.0 µm	Laser diffraction
Particle size D90	4.9 µm	Laser diffraction
SiO ₂ content	97.2 %	Dry basis
Specific surface area	165 m ² /g	BET
Oil absorption	205 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.6	DIN ISO 787-9
Loss on drying	5.0 %	2 h at 105 °C
Tamped bulk density	0.34 g/cm ³	DIN ISO 787-11
Whiteness	94.2	Ry value
Recommended dosage	1-3 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS641

Application: UV wood coatings (spray application)

Product description

VS641 is a synthetic amorphous silica matting agent produced by Vistamatt for uv wood coatings (spray application). Comparison sample within spray systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.8-4.2 μm	Laser diffraction
Particle size D10	2.9 μm	Laser diffraction
Particle size D90	5.3 μm	Laser diffraction
SiO ₂ content	97.0 %	Dry basis
Specific surface area	160 m ² /g	BET
Oil absorption	200 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.5	DIN ISO 787-9
Loss on drying	5.1 %	2 h at 105 °C
Tamped bulk density	0.34 g/cm ³	DIN ISO 787-11
Whiteness	94.0	Ry value
Recommended dosage	1-3 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	5-15 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS351C

Application: Water-based clear wood coatings

Product description

VS351C is a synthetic amorphous silica matting agent produced by Vistamatt for water-based clear wood coatings. Bridge grade when upgrading from a general-purpose matte system. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	3.50 µm	Laser diffraction
Particle size D10	1.8 µm	Laser diffraction
Particle size D90	5.5 µm	Laser diffraction
SiO ₂ content	97.8 %	Dry basis
Specific surface area	210 m ² /g	BET
Oil absorption	250 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.8	DIN ISO 787-9
Loss on drying	4.9 %	2 h at 105 °C
Tamped bulk density	0.30 g/cm ³	DIN ISO 787-11
Whiteness	94.8	Ry value
Recommended dosage	3-5 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	10-35 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS651

Application: Water-based clear wood coatings

Product description

VS651 is a synthetic amorphous silica matting agent produced by Vistamatt for water-based clear wood coatings. Finer balance where smoothness and tactile feel lead the brief. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	4.9-5.2 µm	Laser diffraction
Particle size D10	3.6 µm	Laser diffraction
Particle size D90	6.6 µm	Laser diffraction
SiO ₂ content	96.8 %	Dry basis
Specific surface area	140 m ² /g	BET
Oil absorption	180 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.4	DIN ISO 787-9
Loss on drying	5.3 %	2 h at 105 °C
Tamped bulk density	0.35 g/cm ³	DIN ISO 787-11
Whiteness	93.8	Ry value
Recommended dosage	2-4 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	10-30 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.

VS660

Application: Water-based clear wood coatings

Product description

VS660 is a synthetic amorphous silica matting agent produced by Vistamatt for water-based clear wood coatings. Primary route for high-clarity waterborne clear systems. Particle size, pore structure and surface treatment are selected to reduce gloss while maintaining transparency and dispersion behaviour in the target system.

Typical properties

Property	Typical value	Method / note
Particle size D50	5.0-5.3 μm	Laser diffraction
Particle size D10	3.7 μm	Laser diffraction
Particle size D90	6.7 μm	Laser diffraction
SiO ₂ content	96.7 %	Dry basis
Specific surface area	138 m ² /g	BET
Oil absorption	178 g/100 g	DIN ISO 787-5
pH (5 % suspension)	6.4	DIN ISO 787-9
Loss on drying	5.3 %	2 h at 105 °C
Tamped bulk density	0.35 g/cm ³	DIN ISO 787-11
Whiteness	93.7	Ry value
Recommended dosage	2-4 % on total formulation	System-dependent; confirm by screening
Target gloss (60°)	10-30 GU	Depends on binder and film build
Chemical basis	Synthetic amorphous silica, CAS 7631-86-9	—
Appearance	White fine powder	Visual

Typical values from standard production batches, not guaranteed specifications. Actual batch values may vary within tolerance; a COA is supplied per batch on request. Fields shown as "On request" are available from Vistamatt technical service.

Handling and dispersion

Add into a well-wetted let-down under consistent shear and check the grind gauge for seeds. Some viscosity rise is normal given the surface area. Screen in your own formulation against your own control, and compare candidates at matched gloss rather than matched loading.

Packaging, storage and shelf life

10 kg kraft paper bags. Store sealed in a dry area away from direct sunlight. Shelf life 12 months from date of manufacture in unopened original packaging.