

Functional Filler

Oolitic aragonite classified to customer specification for polymer compounds, coatings and functional filler duty.

TDS-PL-001
REV A
EFFECTIVE SEP 2026

96.17

% CaCO_3 , ASTM C 25

0.01

% IRON OXIDE, Fe_2O_3

2.93

SPECIFIC GRAVITY

20-325

U.S. MESH AVAILABLE

1 • INTENDED APPLICATIONS

- Polymer compounds and masterbatch
- PVC, polypropylene and silicone
- Coatings and surface treatments
- Specialty and functional fillers

Suitability for any particular process must be confirmed on a representative sample. Application rates and process performance are not specified by AragoCor.

2 • PARTICLE SIZE SPECIFICATION

GRADE	SIZING	STATUS	CLASSIFICATION RANGE
PL-CAL	To customer specification	Customer specification required	Screened from the natural commercial gradation
Custom	20-325 mesh	Customer specification required	Application-specific classification

The full screen size specification for the natural commercial grade is given in TDS-OA-001, section 5.

3 • RELEVANT CHEMISTRY

COMPONENT	VALUE	UNIT	METHOD	STATUS
Calcium carbonate, CaCO_3	96.17	% by wt	ASTM C 25	Representative analysis
Magnesium carbonate, MgCO_3	0.24	% by wt	ASTM C 25	Representative analysis
Silica, SiO_2	< 0.01	% by wt	ASTM C 25	Representative analysis
Iron oxide, Fe_2O_3	0.01	% by wt	ASTM C 25	Representative analysis
Aluminium oxide, Al_2O_3	0.10	% by wt	ASTM C 25	Representative analysis
Strontium carbonate, SrCO_3	1.43	% by wt	ASTM C 25	Representative analysis

Analysis by Bowser-Morner, Inc. (AASHTO/ISO 17025), report 124914A. Full composition, including published deposit ranges, is given in TDS-OA-001.

4 • PHYSICAL CHARACTERISTICS

PROPERTY	VALUE	UNIT	METHOD	STATUS
Specific gravity	2.93	—	—	Representative analysis
Mohs hardness	3.5-4	Mohs	—	Published range
Surface area	> 1.7	m^2/g	Keck Lab	Representative analysis
Crystal system	Orthorhombic	—	XRD	Representative analysis
Zeta potential	-6.65 to -33.85	mV	—	Published range
Moisture, as received	5-10	%	—	Published range

Characteristics, supply and quotation

5 • WHY THIS GRADE

CONSIDERATION	BASIS
Crystal habit	The acicular aragonite habit has been reported to reinforce polymers more effectively than the rhombohedral calcite habit (Martínez Moya and Boluda Botella, 2021).
Surface charge	Negative zeta potential of −6.65 to −33.85 mV, against −1.01 to +11.55 mV for calcite.
Low colourants	Iron oxide at 0.01% and silica below 0.01% as measured.
Sizing	PL-CAL carries no published size band. Classification is available across the 20–325 mesh range and is set by the customer specification.

Basis of the polymer references

Findings cited above are as reported by their authors and describe aragonite or carbonate minerals generally. They are not performance claims for any AragoCor grade. Product-specific data are given in this sheet and in TDS-OA-001; published literature is listed in REF-OA-001. Confirm performance on a representative sample for the intended process.

6 • PACKAGING OPTIONS

FORMAT	DETAIL
Dry bulk	Vessel or bulk trailer
Super sack	Up to 3,000 lb
Bagged	From 1 lb
Distribution	Stockton, California

7 • INFORMATION REQUIRED FOR QUOTATION

- Required particle sizing or target specification
- Estimated annual volume
- Delivery destination — city, ZIP or port
- Intended process or application
- Packaging format
- Any standard or specification to be met

8 • QUALITY DOCUMENTATION AVAILABLE

DOCUMENT	CONTENT
Lot COA	Certificate of analysis issued for each dispatched lot
TDS-OA-001	Master technical data sheet — full composition, properties and sizing
CERT-OA-001	OMRI Listed® summary, product code avw-23214
PDS-OA-001	Manufacturing process — mechanical processing, no additives
SHS-OA-001	Occupational safety summary
SDS	16-section GHS Safety Data Sheet — consult before handling

Request a sample or bulk pricing

Send the grade, sizing, annual volume and destination and a sales engineer will respond with pricing and a freight estimate.

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Values marked Representative analysis are measurements from an identified sample and describe material as tested. Values marked Published range are historical deposit ranges for dried, unwashed material. Neither constitutes a guaranteed minimum or maximum; a guaranteed specification is agreed in writing per contract and confirmed per lot by certificate of analysis. This information is offered for consideration, investigation and verification. It is not a warranty or representation of suitability for any particular application, nor permission to practise any patented invention.

REVISION HISTORY

REV	DATE	CHANGE
A	Sep 2026	First issue on approved values.

TECHNICAL SUPPORT

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