



PRODUCT SHEET

| | |
|-----------------|--|
| Title | MICARB® Fractionated micromarble of the SUPER serie |
| Standard | TU 5716-003-40705684-2001 |
| Grades | MICARB® 50-97 35-97 15-97 10-97 07-97 05-97 03-97 01-97 50-98 35-98 15-98 10-98 07-98 03-98 01-98 30-99 10-99 07-99 05-99 03-99 |



MICARB® 01-99



MICARB® 05-98

| | |
|----------------------------|---|
| Manufacturer | GEOKOM, ZAO, Russia, Kaluga oblast, p. Polotnyaniy Zavod, ul. Slobodka, 111A, tel/fax (+08434) 32412, 46006 |
| Product description | grainy or fine dry powder of the bright white color |
| Mineral formula | crystalline calcium carbonate / calcite, marble / of the high purity |

Chemical formula

| | |
|--------------------------------|------------|
| CaCO ₃ | 98÷99% |
| MgCO ₃ | 0,5÷1,0% |
| Fe ₂ O ₃ | 0,02÷0,1% |
| Al ₂ O ₃ | 0,01÷0,05% |
| SiO ₂ | < 0,5% |
| Water-soluble salts | < 0,2% |

Physical and other parameters

| | |
|----------------------------|----------|
| Density, g/cm ³ | 2,7÷2,75 |
| Hardness (Mohs) | 3 |
| Refractive Index | 1,59 |
| pH Index | 9,2÷9,7 |
| Humidity | < 0,2 |

№098k-02



PRODUCT SHEET

Technological quality parameters MICARB® micromarble of the SUPER serie, grade «99»

| Parameter | MICARB® | | | | | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | 30-99 | 10-99 | 07-99 | 05-99 | 03-99 | 01-99 |
| Fraction of total mass of screening residue N0045 (ISO 787/7), % | 5 | 0,2 | 0,1 | 0,05 | 0,01 | 0,00 |
| Top cut, % (Microsizer-201A): | | | | | | |
| less 20 µm | 15 | 84 | 90 | 92 | | |
| less 15 µm | 10 | 70 | 80 | 85 | 95 | |
| less 10 µm | 5 | 50 | 60 | 75 | 85 | 98 |
| less 5 µm | | 30 | 40 | 50 | 70 | 95 |
| less 2 µm | | 15 | 17 | 30 | 40 | 60 |
| Average particle size distribution, µm (Microsizer-201A): | | | | | | |
| medium (D ₅₀) | 30 | 10 | 7 | 5 | 3 | 1,7 |
| maximum (D ₉₈) | 60 | 32 | 28 | 23 | 17 | 10 |
| minimum (D ₁₀) | 6 | 1,8 | 1,3 | 1,0 | 0,9 | 0,8 |
| Chromatic preferences: | | | | | | |
| whiteness CIELab (ISO 787/1, C/2°), % | 98,5 | 99 | 99 | 99 | 99 | 99 |
| lightness (L) CIELab, % | 99 | 99,5 | 99,5 | 99,5 | 99,5 | 99,5 |
| brightness DIN 53163 (R _y , C/2°), % | 97 | 98,5 | 98,5 | 98,5 | 98,5 | 98,5 |
| yellowness ASTM D1925-70 (C/2°), % | 2 | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 |
| brightness ISO 2470 (R ₄₅₇), % | 96 | 97,5 | 97,5 | 97,5 | 97,5 | 97,5 |
| whiteness ISO 11475 (D ₆₅ /10°), % | 92 | 94 | 94 | 94 | 94 | 94 |
| Oil absorption (ISO 787/5), g/100 g | 13 | 11 | 16 | 20 | 22 | 28 |
| DOP-absorption (ISO 787/5), g/100 g | 15 | 20 | 26 | 30 | 34 | 40 |
| Density (ISO 787/11), g/cm ³ | | | | | | |
| after packing | 1,0÷1,1 1,1÷1,2 | 0,9÷1,0 1,1÷1,2 | 0,9÷1,0 1,1÷1,2 | 0,8÷0,9 1,0÷1,1 | 0,7÷0,8 0,8÷0,9 | 0,5÷0,6 0,6÷0,7 |

Package:

- Plastic bags 250 , 1000 kg;
- Valvular paper bags 10 , 50 kg or polypropylene sewed-in 25 kg bags on pallets (up to 1200 kg) using special protective materials for transportation.

№098k-02



PRODUCT SHEET

Technical quality parameters
MICARB® micromarble of the SUPER serie, grades «97» / «98»

| Parameter | MICARB® | | | |
|---|--------------------|--------------------|--------------------|--------------------|
| | 50- 97 98 | 35- 97 98 | 15- 97 98 | 10- 97 98 |
| Fraction of total mass of screening residue, % | | | | |
| №01 | 5 | 0,3 | | |
| №0063 | 30 | 5 | 0,3 | |
| №0045 | 50 | 15 | 5 | 0,2 |
| Top cut, % (Microsizer-201A): | | | | |
| less 20 µm | | | 60 | 84 |
| less 15 µm | | | 50 | 70 |
| less 10 µm | | | 30 | 50 |
| less 5 µm | | | 20 | 30 |
| less 2 µm | | | 5 | 15 |
| Average particle size distribution, µm (Microsizer-201A): | | | | |
| medium (D ₅₀) | 45 | 35 | 15 | 10 |
| maximum (D ₉₈) | 140 | 70 | 50 | 32 |
| minimum (D ₁₀) | 8 | 6 | 5 | 1,8 |
| Chromatic preferences: | | | | |
| whiteness CIELab (ISO 787/1, C/2°), % | 97 / 98 | 97 / 98 | 97 / 98 | 97,5 / 98 |
| lightness (L) CIELab, % | 97,5 / 98 | 97,5 / 98 | 97,5 / 98 | 97,7 / 98,5 |
| brightness DIN 53163 (R _v , C/2°), % | 95 / 95,5 | 95 / 95,5 | 95 / 96 | 95,5 / 96,5 |
| yellowness ASTM D1925-70 (C/2°), % | 3,5 / 2 | 3,5 / 2 | 3,5 / 2 | 3,5 / 2 |
| brightness ISO 2470 (R ₄₅₇), % | 93 / 94 | 93 / 94 | 93 / 95 | 94 / 94,5 |
| whiteness ISO 11475 (D ₆₅ /10°), % | 87 / 90 | 87 / 90 | 88 / 91 | 89 / 92 |
| Oil absorption (ISO 787/5), g/100 g | 12 | 14 | 15 | 11 |
| DOP-absorption (ISO 787/5), g/100 g | 14 | 16 | 17 | 20 |
| Density (ISO 787/11), g/cm ³ after packing | 1,1÷1,3 1,2÷1,4 | 1,1÷1,2 1,2÷1,3 | 1,0÷1,1 1,1÷1,2 | 0,9÷1,0 1,1÷1,2 |

Package:

- Plastic bags 250, 1000 kg;
- Valvular paper bags 10, 50 kg or polypropylene sewed-in 25 kg bags on pallets (up to 1200 kg) using special protective materials for transportation.

№098k-02



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Technical quality parameters

MICARB® micromarble of the SUPER serie, grades «97» / «98»

| Parameter | MICARB® | | | |
|---|--------------------|--------------------|--------------------|--------------------|
| | 07- 97 98 | 05- 97 98 | 03- 97 98 | 01- 97 98 |
| Fraction of total mass of screening residue, % | | | | |
| №0045 | 0,1 | 0,05 | 0,01 | 0,00 |
| Top cut, % (Microsizer-201A): | | | | |
| less 20 µm | 90 | 95 | | |
| less 15 µm | 80 | 85 | 95 | |
| less 10 µm | 60 | 75 | 85 | 98 |
| less 5 µm | 40 | 50 | 70 | 95 |
| less 2 µm | 17 | 30 | 40 | 60 |
| Average particle size distribution, µm (Microsizer-201A): | | | | |
| medium (D ₅₀) | 7 | 5 | 3 | 1,7 |
| maximum (D ₉₈) | 28 | 23 | 17 | 10 |
| minimum (D ₁₀) | 1,3 | 1,0 | 0,9 | 0,8 |
| Chromatic preferences: | | | | |
| whiteness CIELab (ISO 787/1, C/2°), % | 97,5 / 98 | 97,5 / 98 | 97,5 / 98 | 97,5 / 98 |
| lightness (L) CIELab, % | 97,7 / 98,5 | 97,7 / 98,5 | 97,7 / 98,5 | 97,7 / 98,5 |
| brightness DIN 53163 (R _v , C/2°), % | 95,5 / 96,5 | 95,5 / 96,5 | 95,5 / 96,5 | 95,5 / 96,5 |
| yellowness ASTM D1925-70 (C/2°), % | 3,5 / 2 | 3,5 / 2 | 3,5 / 2 | 3,5 / 2 |
| brightness ISO 2470 (R ₄₅₇), % | 94 / 95,5 | 94 / 95,5 | 94 / 95,5 | 94 / 95,5 |
| whiteness ISO 11475 (D ₆₅ /10°), % | 89 / 92 | 89 / 92 | 89 / 92 | 89 / 92 |
| Oil absorption (ISO 787/5), g/100 g | 16 | 20 | 22 | 28 |
| DOP-absorption (ISO 787/5), g/100 g | 26 | 30 | 34 | 40 |
| Density (ISO 787/11), g/cm ³ after packing | 0,9±0,1 1,1±0,2 | 0,8±0,9 1,0±0,1 | 0,7±0,8 0,8±0,9 | 0,5±0,6 0,6±0,7 |

Package:

- Plastic bags 250, 1000 kg;
- Valvular paper bags 10, 50 kg or polypropylene sewed-in 25 kg bags on pallets (up to 1200 kg) using special protective materials for transportation.

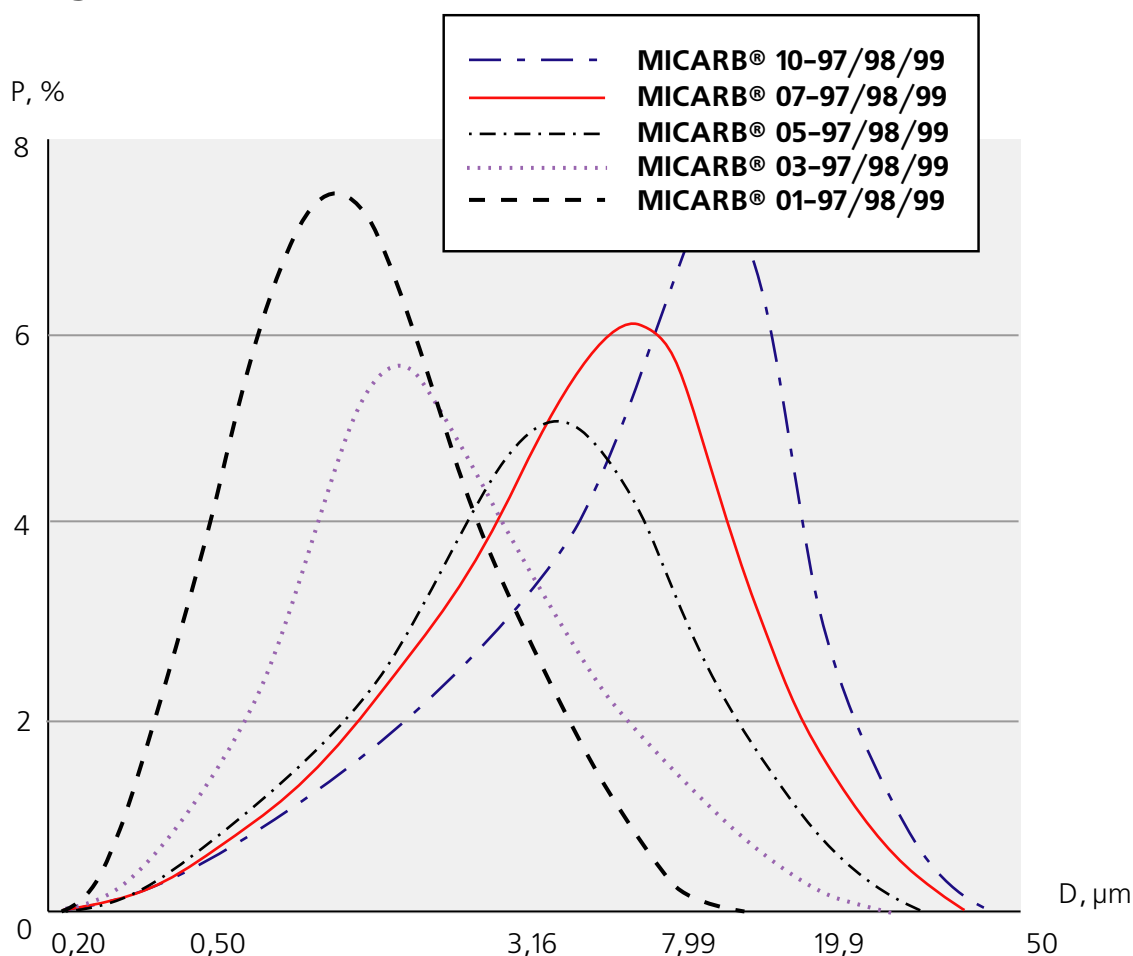
№098k-02





PRODUCT SHEET

Typical weights distribution



The technical data listed corresponds to actual production regulations and are confirmed by regular tests made by the manufacturer. It is typical to the maximum, but can not be construed as an obligatory specification. It is subject of testing if intolerable transportation or after-sale storage conditions have been supposed. This technical information can be corrected without any prior notices because of new production technologies or state regulations.

№098k-02

