



## PRODUCT SHEET

**Title** MICARB®  
Micronized calcium carbonate of the SUPER series

**Standard** TU 5716-003-40705684-2001

**Grades** MICARB® 20-98 | 15-98 | 10-98 | 05-98 |  
03-98 | 02-98 | 01-98 | 95

**Manufacture** GEOKOM, Russia, Kaluga region,  
set. Polotnyaniy Zavod, st. Slobodka, 111,  
tel/fax + 748434 46006, 44816, 44817

**Product description** grainy or fine dry powder of the white color

**Mineral formula** crystalline calcium carbonate / calcite,  
marble / of the high purity

### Chemical formula

CaCO<sub>3</sub> 98÷99%  
MgCO<sub>3</sub> 0,5÷1,0%  
Fe<sub>2</sub>O<sub>3</sub> 0,05÷0,1%  
Al<sub>2</sub>O<sub>3</sub> 0,02÷0,05%  
SiO<sub>2</sub> < 0,5%

Water-soluble salts < 0,2%

### Physical and other parameters

Density, g/cm<sup>3</sup> 2,7÷2,75  
Hardness (Mohs) 3,0  
Refractive Index 1,59  
PH indicator 9,2÷9,7  
Humidity <0,2

#### Packaging:

- polypropylene containers with polyethylene liners 250-1000 kg each;
- paper valve bags of 10-50 kg on pallets (up to 1200 kg) using transport protection materials.





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### Typical quality indicators

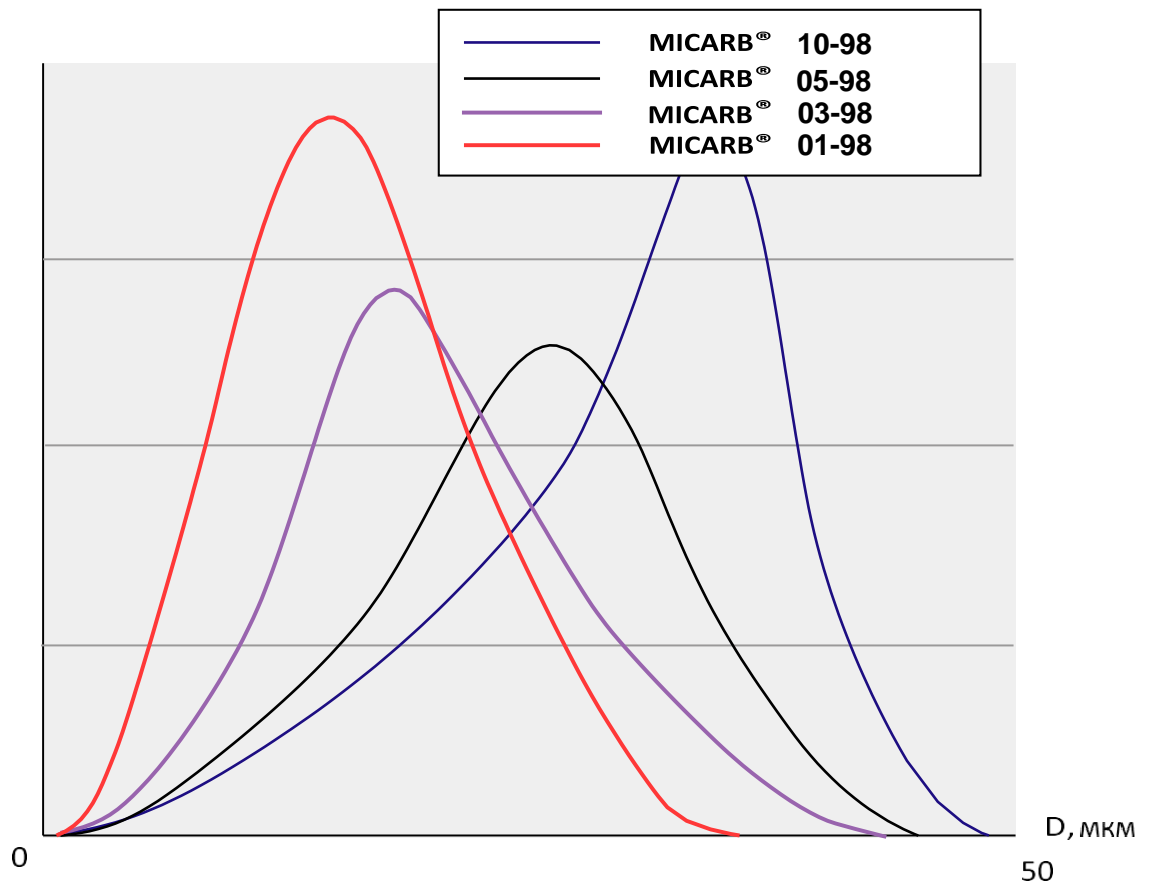
| Parameters   | MICARB® |         |         |         |         |         |         |         |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
|  | 20-98   | 15-98   | 10-98   | 05-98   | 03-98   | 02-98   | 01-98   | 95      |
| Mass fraction of the sieve residue N0045 (ISO 787/7),%, no more                      | 3       | 2       | 0,5     | 0,05    | 0,01    | 0,00    | 0,00    | 0,00    |
| Mass fraction of particles with an equivalent sphere size,%, size (Microsizer-201A): |         |         |         |         |         |         |         |         |
| less 20 µm   | 50      | 60      | 87      | 97      |         |         |         |         |
| less 10 µm   | 25      | 35      | 50      | 75      | 85      | 97      | 98      |         |
| less 5 µm  | 15      | 20      | 30      | 45      | 70      | 83      | 90      | 98      |
| less 2 µm  | 8       | 12      | 15      | 20      | 40      | 40      | 50      | 75      |
| Median particle diameter, µm (Microsizer-201A):                                      |         |         |         |         |         |         |         |         |
| medium (D <sub>50</sub> )  | 20      | 15      | 10      | 5       | 3       | 2.2     | 1,7     | 1.3     |
| maximum (D <sub>98</sub> )   | 75      | 50      | 42      | 23      | 17      | 12      | 9       | 4       |
| minimum (D <sub>10</sub> )   | 2,5     | 1,5     | 1,2     | 1,1     | 0,9     | 0,8     | 0,8     | 0,7     |
| Chromatic preferences:   |         |         |         |         |         |         |         |         |
| whiteness CIELab (ISO 787/1, C/2°), %  | 97,0    | 97,5    | 98      | 98,3    | 98,3    | 98,2    | 98,5    | 98,7    |
| lightness (L) by CIELab,%  | 97,5    | 97,5    | 98      | 98      | 98      | 98,2    | 98,6    | 98,7    |
| brightness DIN 53163 (R <sub>y</sub> , C / 2 °),%                                    | 94      | 94      | 95      | 94,5    | 95      | 95,5    | 96      | 96      |
| yellowness according to ASTM D1925-70 (C / 2 °),%                                    | 2,5     | 3,0     | 2,5     | 2,5     | 2       | 2       | 2       | 1,8     |
| brightness ISO 2470 (R457),%   | 92      | 92,5    | 93      | 93,5    | 94      | 94,5    | 94,5    | 95      |
| Density (ISO 787/11), g / cm <sup>3</sup>  |         |         |         |         |         |         |         |         |
| after packing  | 1,0÷1,1 | 0,9÷1,0 | 0,9÷1,0 | 0,6÷0,7 | 0,7÷0,8 | 0,5÷0,6 | 0,4÷0,5 | 0,3÷0,4 |
|  | 1,2÷1,3 | 1,2÷1,3 | 1,1÷1,2 | 1,0÷1,1 | 0,8÷0,9 | 0,6÷0,7 | 0,5÷0,6 | 0,5÷0,6 |





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### Typical weight distribution



The technical information provided here corresponds to the current production regulations, is confirmed by regular factory tests of the products, is as typical as possible, but should not be interpreted as a mandatory specification. It is subject to verification also if there are assumptions about unacceptable conditions of transportation and after-sale storage of products. This technical information may be updated without prior notice due to the introduction of new modes and production technologies, as well as the implementation of the relevant restrictions imposed by the state.

