



## PRODUCT SHEET

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

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

**Grades** MICARB®400 | 160 | 100-1 | 100-2 | 60 | 40  
10-96 | 07-96 | 05-96 | 03-96 | 01-96

**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)	2,5÷3,0
Abrasivity (ASTM 503-89)	10,3
Refractive Index	1,59
PH indicator	9,2÷9,7
Humidity	<0,3

#### 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 technological quality parameters calcium carbonate MICARB® of the «STANDARD» series

Parameters	MICARB®				
	400	160	100-1	100-2	60
Fraction of Total Mass of screening residue, %:					
№04	0,5				
№025	7	0,2			
№016	20	2	0,5	0,5	
№01	55	15	5	10	0,5
№0063	≥60	≥35	25	40	5
№0045	≥80	≥70	40	50	15
Average particle size distribution, µm (Microsizer-201A):					
medium (D <sub>50</sub> )	100	60	45	50	35
maximum (D <sub>98</sub> )	350	160	130	150	70
minimum (D <sub>10</sub> )		9	7	8	6
Chromatic preferences:					
whiteness CIELab (ISO 787/1, C/2°), %	95	95	95	95,5	96
brightness DIN 53163 (R <sub>y</sub> , C/2°), %	89	89	89	91	91
Oil absorption (ISO 787/5), g/100 g		11	12	11	14
DOP-absorption (ISO 787/5), g/100 g		14	15	14	18
Density					
(ISO 787/11) , g/cm <sup>3</sup>	1,3÷1,4	1,2÷1,3	1,1÷1,2	1,1÷1,3	1,0÷1,2
after packing	1,4÷1,5	1,3÷1,4	1,3÷1,4	1,3÷1,4	1,1÷1,3





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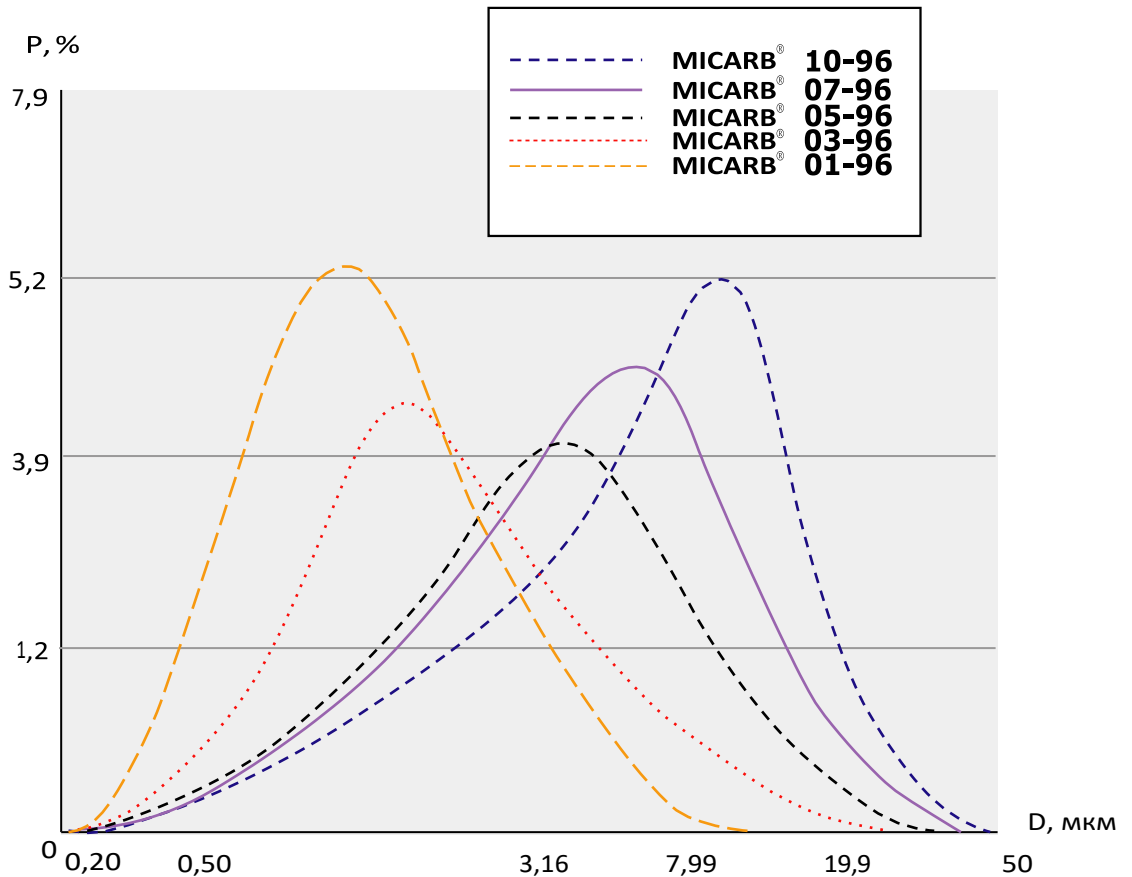
Parameters	MICARB®					
	40	10-96	07-96	05-96	03-96	01-96
Fraction of Total Mass of screening residue, %:						
N <sub>0045</sub>	5	0,2	0,1	0,1	0,05	0,01
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):						
less 20 µm	60	84	90	92		
less 15 µm	50	70	80	85	95	
less 10 µm	30	50	60	75	85	98
less 5 µm	20	30	40	50	70	95
less 2 µm	5	15	17	30	40	60
Median particle diameter, µm (Microsizer-201A):						
medium (D <sub>50</sub> )	15	10	7	5	3	1,7
maximum (D <sub>98</sub> )	50	32	28	23	18	10
minimum (D <sub>10</sub> )	5	1,8	1,3	1,0	0,9	0,8
Chromatic preferences:						
whiteness CIELab (ISO 787/1, C/2°), %	96,5	96,5	96,5	96,5	96,5	96
brightness DIN 53163 (R <sub>y</sub> , C/2°), %	93	93	93	93	93	92
Oil absorption (ISO 787/5), g/100 g	15	17	20	22	24	28
DOP-absorption (ISO 787/5), g/100 g	20	24	28	30	36	43
Density						
(ISO 787/11) , g/cm <sup>3</sup>	1,0÷1,2	1,0÷1,1	1,0÷1,1	0,9÷1,0	0,7÷0,8	0,6÷0,7
after packing	1,1÷1,3	1,1÷1,2	1,1÷1,2	1,0÷1,1	0,8÷1,0	0,7÷0,8





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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..

