



## PRODUCT SHEET

**Title** MIWOLL®

Micronized wollastonite of the  
SUPER series

**Standard** TU 5777-006-40705684-2003

**Grades** MIWOLL® 40-97 | 30-97 | 30-96 | 15-97 | 15-96  
10-97 | 10-96 | 05-96 | 03-96

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

**Product description** fine dry friable powder of the white color

**Mineral formula** wollastonite / calcium metasilicate / of two structural  
polytypes 1TR and 2M

**Chemical formula**

CaO	45÷48%
SiO <sub>2</sub>	50÷53%
Fe <sub>2</sub> O <sub>3</sub>	0,05÷0,2%
Al <sub>2</sub> O <sub>3</sub>	0,1÷0,3%
MgO	0,4÷1%

**Physical and other  
parameters**

Density, g/cm<sup>3</sup> 2,9

Hardness (Mohs) 4,5÷5

Refractive Index 1,64

pH Index 9,5÷10,5

Humidity < 0,2%

Losses on ignition < 1,2%

Water-soluble materials < 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  
wollastonite MIWOLL® of the SUPER  
series**

Parameter	MIWOLL®					
	40-97	30-97	30-96	15-97	15-96	10-97
Typical characteristic proportion	10:1	10:1	4:1	16:1	4:1	16:1
Typical particle sizes, µm						
length	180	150	60	80	40	65
diameter	18	15	15	5	9	4
Fraction of total mass of screening residue, %						
N01	3	1	0,1			
N0045	40	30	1	0,3	0,1	0,1
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):						
less 40 µm	45	55	60	80	85	85
less 30 µm	30	40	50	70	70	75
less 20 µm	20	20	20	60	60	70
less 10 µm	8	8	10	30	30	40
less 5 µm	5	5	5	15	15	20
Average particle size distribution, µm (Microsizer-201A):						
medium (D <sub>50</sub> )	45	35	30	15	15	12
maximum (D <sub>98</sub> )	165	130	100	100	70	90
minimum (D <sub>10</sub> )	5	4	3,5	3,5	3	2,5
Chromatic preferences:						
whiteness CIELab (ISO 787/1, C/2°), %	96	96	95	97	96	97
lightness (L) CIELab, %	96	96	95	97	96	97
brightness DIN 53163 (R <sub>v</sub> , C/2°), %	91	91	88	92	89	92
yellowness ASTM D1925-70 (C/2°), %	3	3	2,5	2,5	2,5	2,5
brightness ISO 2470 (R <sub>457</sub> ), %	90	90	86	90	87	90
whiteness ISO 11475 (D <sub>65</sub> /10°), %	84	84	81	87	82	87
Oil absorption (ISO 787/5), g/100 g	23	25	25	33	28	35
DOP-absorption (ISO 787/5), g/100 g	33	35	35	43	38	45
Density (ISO 787/11), g/cm <sup>3</sup>	0,9÷1,0	0,9÷1,0	1,1÷1,2	0,6÷0,8	0,7÷0,9	0,5÷0,6



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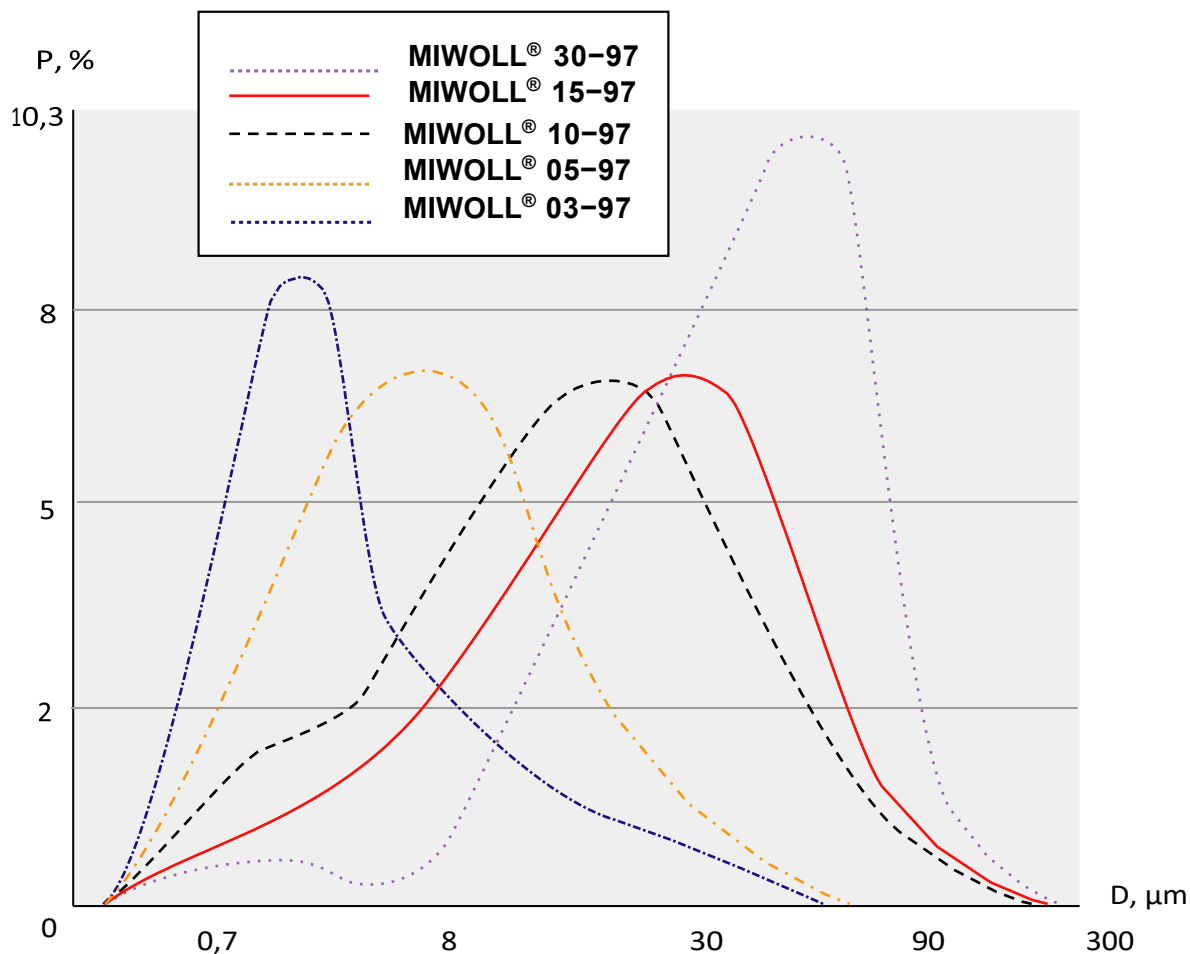
Typical technological quality parameters  
wollastonite MIWOLL® of the SUPER  
series

Parameter	MIWOLL®				
	10-96	05-97	05-96	03-97	03-96
Typical characteristic proportion (length : diameter)	5:1	20:1	8:1	10:1	6:1
Typical particle sizes, µm					
length	30	40	22	12	8
diameter	6	2	2,5	1,2	1,5
Fraction of total mass of screening residue, %					
N0045	0,05	0,05	0,03	0,01	0,01
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):					
less 40 µm	90	95	95	100	100
less 35 µm	85	90	90	98	98
less 20 µm	75	80	05	95	95
less 10 µm	45	70	70	85	90
less 5 µm	25	40	40	70	75
Average particle size distribution, µm (Microsizer-201A):					
medium (D <sub>50</sub> )	10	6	6	3	2,8
maximum (D <sub>98</sub> )	60	60	40	25	20
minimum (D <sub>10</sub> )	2	2	1,5	1,5	1
Chromatic preferences:					
whiteness CIELab (ISO 787/1, C/2°), %	96	97	96	96	96
lightness (L) CIELab, %	96	97	96	96	96
brightness DIN 53163 (R <sub>v</sub> , C/2°), %	89	92	89	91	89
yellowness ASTM D1925-70 (C/2°), %	2,5	2,5	2,5	3	2,5
brightness ISO 2470 (R <sub>457</sub> ), %	88	90	88	90	88
whiteness ISO 11475 (D <sub>65</sub> /10°), %	83	87	83	86	83
Oil absorption, g/100 g	30	42	40	46	45
DOP-absorption, g/100 g	40	67	55	71	65
Density (ISO 787/11), g/cm <sup>3</sup>	0,7÷0,8	0,5÷0,6	0,4÷0,5	0,4÷0,5	0,4÷0,5



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Typical weights 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.

