



**PRODUCT SHEET**

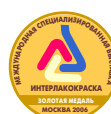
**Title** **MIWOLL®**  
Fractionated microwollastonite  
of the SUPER serie

**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



MIWOLL® 05-97



MIWOLL® 03-97

**Manufacturer** GEOKOM, ZAO, Russia, Kaluga oblast,  
p. Polotnyaniy Zavod, ul. Slobodka, 111A,  
tel/fax (+48434) 32412, 46006

**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%

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**Typical technological quality parameters  
MIWOLL® wollastonite of the SUPER serie**

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
Top cut, % (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>90</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**  
**MIWOLL® wollastonite of the SUPER serie**

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
Top cut, % (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

**Package:**

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

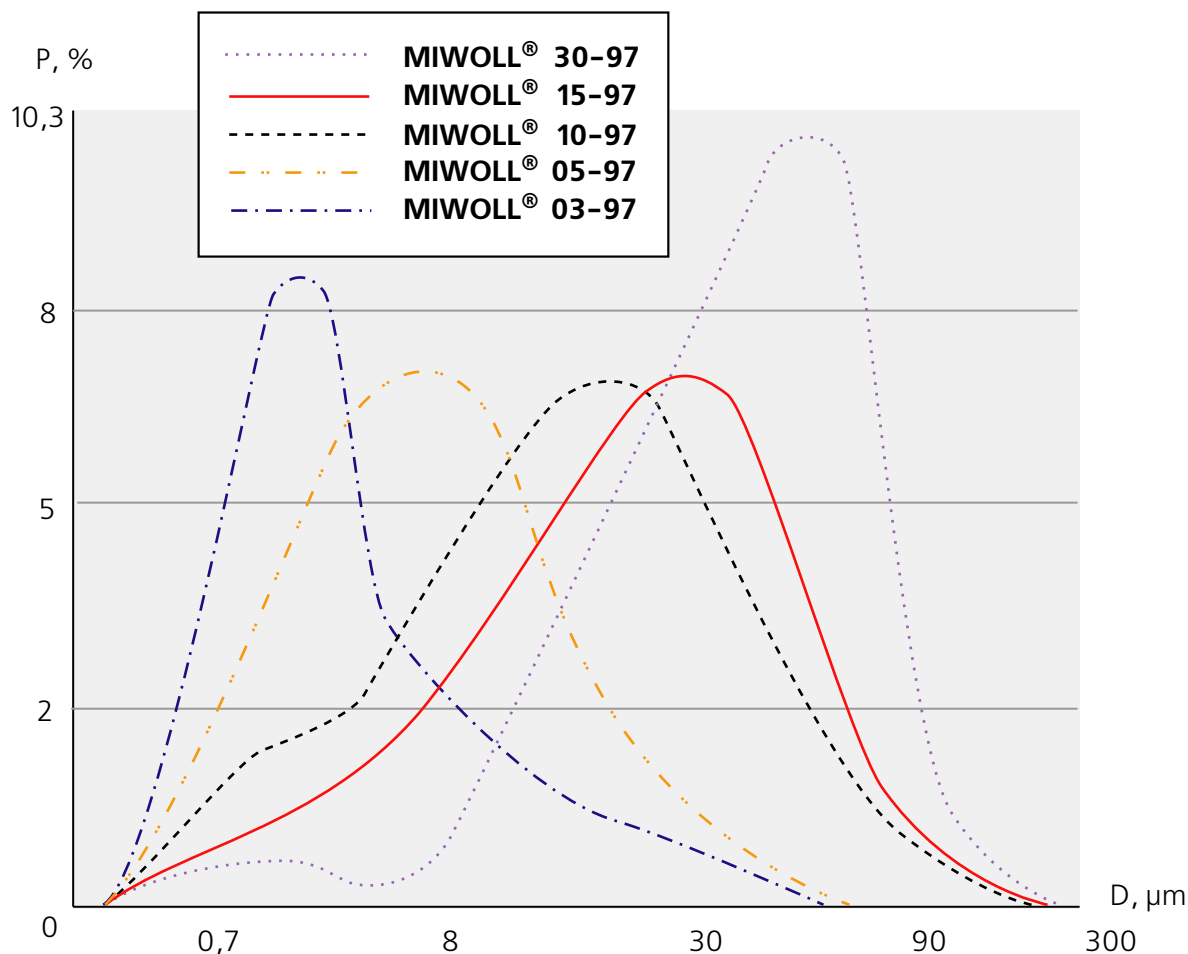
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**Typical weights distribution**



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.

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