



# GEOKOM

ENGINEERING  
FILLERS

## MITAL®

MICRONIZED TALC  
series "SUPER"

MICARB® MIDOL® MITAL® MIBARI® MIWOLL® FRAMICA® FRAMITEX® FRAMIAL® FRAMILITE® FRAMIX® MIKAO®

## PRODUCT SHEET

**Title** MITAL®

Micronized talc of the SUPER series

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

**Grades** MITAL® 15-96 | 10-96 | 07-96 | 05-96 | 03-96  
15-90 | 10-90 | 07-90 | 05-90 | 03-90

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

**Product description** fine dry white powder

**Mineral formula** natural mix of high-plated talc, chlorite, mica without  
free quartz (<<0,2%) and asbestos-making materials

### Chemical formula

MgO 30÷35%

Fe<sub>2</sub>O<sub>3</sub> 0,1÷0,3%

SiO<sub>2</sub> 35÷50%

CaO 0,3÷0,5%

Al<sub>2</sub>O<sub>3</sub> < 20%

### Physical and other parameters

Density, g/cm<sup>3</sup> 2,6÷2,7

Hardness (Mohs) 1÷2

Refractive Index 1,57÷1,6

pH Index 9÷10

Humidity, % <0,1

Water-soluble materials <0,2  
Fraction of total mass of burnt  
insoluble in hydrochloric  
acid residue 8090%  
Losses on ignition  
(1000 °C, 1 h) < 12,5

#### 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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1



ISO 9001

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### Typical technological quality parameters talc MITAL® series "SUPER" , grades «96» and «90»

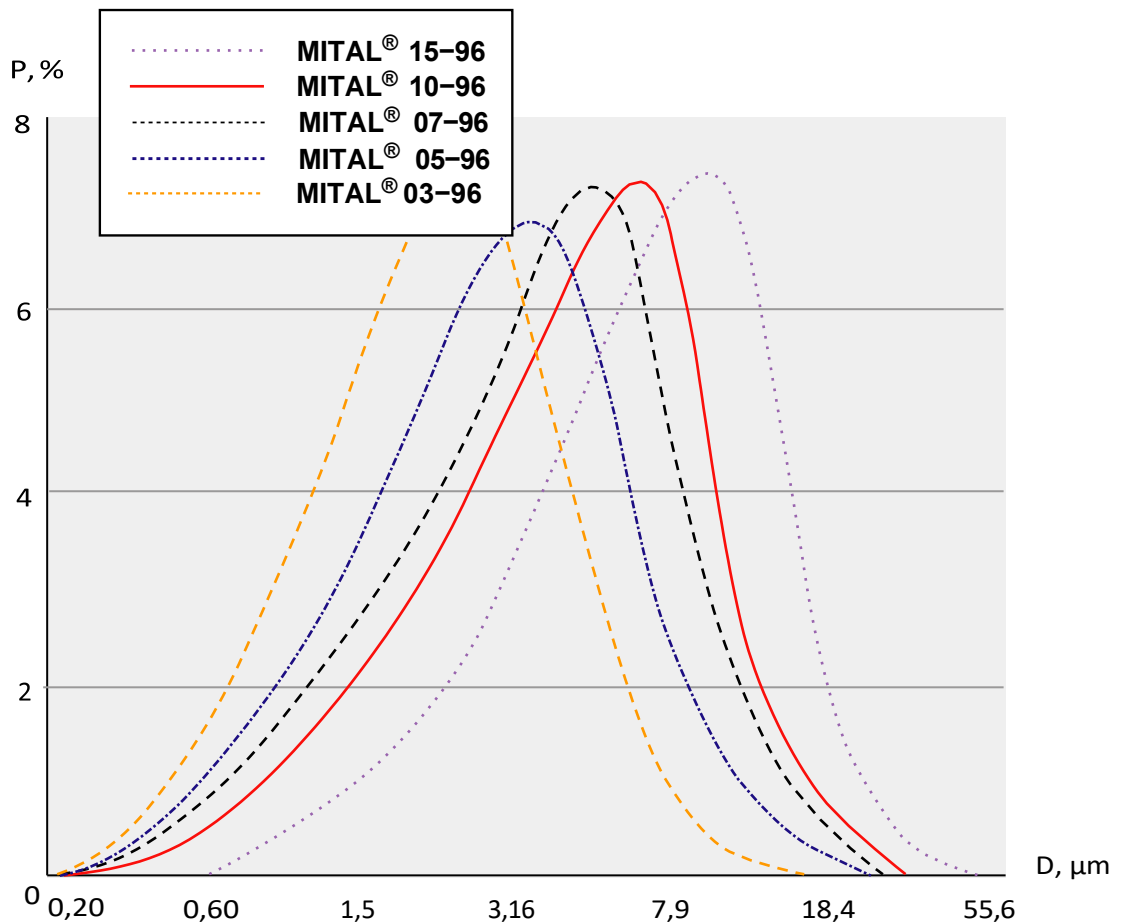
Parameter	MITAL®				
	15-96/90	10-96/90	07-96/90	05-96/90	03-96/90
Chromatic preferences:					
whiteness CIELab (ISO 787/1, C/2°), %	95/90	96,5/91	96,5/91	96,5/91	96,5/91
lightness (L) CIELab, %	96/90	97/91	97/91	97/91	97/91
brightness DIN 53163 (R <sub>v</sub> , C/2°), %	90/85	90/85	92/87	92/87	92/87
yellowness ASTM D1925-70 (C/2°), %	3,5/2	3,5/2	3/2	3/2	3/2
brightness ISO 2470 (R <sub>457</sub> ), %	87/75	87/77	90/77	90/77	90/77
whiteness ISO 11475 (D <sub>65</sub> /10°), %	81/70	81/71	86/71	86/71	86/71
Fraction of total mass of screening residue (ISO 787/5), %					
№0045	5	0,2	0,05	0,01	0,00
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):					
less 20 µm	65	80	90	95	
less 15 µm	50	65	75	85	95
less 10 µm	30	50	60	75	90
less 5 µm	10	20	30	40	75
less 2 µm	5	8	10	10	25
Average particle size distribution, µm (Microsizer-201A):					
medium (D <sub>50</sub> )	15	10	7	5	3,5
maximum (D <sub>98</sub> )	70	33	30	25	18
minimum (D <sub>10</sub> )	5	2,5	2	1,5	1,2
Oil absorption (ISO 787/5), g/100 g	20	25	30	35	45
DOP-absorption (ISO 787/5), g/100 g	30	35	40	45	60
Density (ISO 787/11) , g/cm <sup>3</sup>					
after packing	0,8÷1,0	0,7÷0,9	0,5÷0,6	0,3÷0,5	0,2÷0,3
	1,0÷1,2	0,9÷1,1	0,6÷0,8	0,4÷0,6	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.

