



PRODUCT SHEET

Title	MITAL® Micronized talc of the SUPER series
Standard	TU 5716-003-40705684-2001
Grades	MITAL® 30-99M 30-99 15-99M 15-99 10-99K 10-99 05-99 03-99 30-97 15-97 10-97 07-97 05-97 30-92 15-92 10-92 07-92 05-92
Manufacturer	GEOKOM, Russia, Kaluga region, set. Polotnyaniy Zavod, st. Slobodka, 111, tel/fax + 748434 46006, 44816, 44817
Product description	fine dry powder of the bright white (grade «99») or white (grades «97», «92») color
Mineral formula	high-plated talc of the carbonate type without free silicium dioxide (<<0,2%) and asbestos-making materials
Physical and other parameters	
Density, g/cm ³	2,65÷2,7
Hardness (Mohs)	1÷1,5
Refractive Index	1,55÷1,6
pH Index	9÷10
Humidity	<0,1
Water-soluble materials	<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 technological quality parameters
talc MITAL® of the SUPER series, grade «99»**

Parameter	MITAL®								
	30-99M	30-99	15-99M	15-99	10-99K	10-99	07-99	05-99	03-99
Fraction of total mass, %									
MgO, %	28	30	28	30	31	30	30	30	30
SiO ₂ , %	45	60	45	60	61	60	60	60	60
Fe ₂ O ₃ , %	0,1	0,1	0,1	0,1	0,05	0,05	0,05	0,05	0,05
Fraction of total mass of burnt insoluble in hydrochloric acid residue, %	70	90	70	91	93	91	91	94	94
Fraction of total mass of screening residue, %									
№0063	7	7	2	2					
№0045	30	30	15	15	0,1	0,1	0,05	0,00	0,00
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):									
less 20 µm	30	30	55	55	80	80	90	95	
less 15 µm	20	20	50	50	65	65	75	85	95
less 10 µm	15	15	30	30	50	50	60	75	90
less 5 µm	5	5	10	10	20	20	30	40	70
less 2 µm			5	5	8	8	10	10	20
Average particle size distribution, µm (Microsizer-201A):									
medium (D ₅₀)	30	30	15	15	10	10	7	5	3,5
maximum (D ₉₈)	100	100	75	75	35	35	30	25	18
minimum (D ₁₀)	10	10	5	5	3	3	2	1,5	1,2





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**Typical technological quality parameters
talc MITAL® of the SUPER series, grade «99»**

Parameter	MITAL®								
	30-99M	30-99	15-99M	15-99	10-99K	10-99	07-99	05-99	03-99
Chromatic preferences:									
whiteness CIELab (ISO 787/1, C/2°), %	97,5	97,5	98	98	97*	98,8	98,8	98,8	98,5
lightness(L) CIELab, %	98	98	98,5	98,5	98*	99	99	99	99
brightness DIN 53163 (R ₁ , C/2°), %	95	95	96	96	96*	97	97	97	97
yellowness ASTM D1925-70 (C/2°), %	2,5	2,5	2,5	2,5	4*	1,8	1,8	1,8	1,8
brightness ISO 2470 (R ₄₅₇), %	94	94	94	94	93*	95,5	95,5	95,5	95,5
whiteness ISO 11475 (D /10°), %	90	90	91	91	86*	93	93	93	93
Oil absorption, g/100 g	17	20	23	25	30	30	34	45	49
DOP-absorption, g/100 g	23	27	30	35	42	42	46	60	68
Density (ISO 787/11) , g/cm ³ after packing	1,0±1,2 1,2±1,4	1,0±1,2 1,2±1,4	0,9±1,1 1,1±1,2	0,9±1,1 1,1±1,2	0,3±0,4 0,5±0,6	0,3±0,4 0,5±0,6	0,3±0,4 0,5±0,6	0,2±0,3 0,4±0,5	0,2±0,3 0,4±0,5

* - chromatic preferences of the MITAL© 10-99K are provided after losses on ignition (1000°C, 1 h)

Package:

Packaging - polypropylene containers MKR with polyethylene liners.

MITAL®	30-99M	30-99	15-99M	15-99	10-99K	10-99	07-99	05-99	03-99
Shipment load, kg	1000	1000	1000	800	400	400	400	250	200

On demand packing - valvular paper bags 10-30 kg, on the pallets (up to 1200 kg), using special protective materials for transportation.





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Typical technological quality parameters
talc MITAL® of the SUPER series, grade «92» / grade «97»

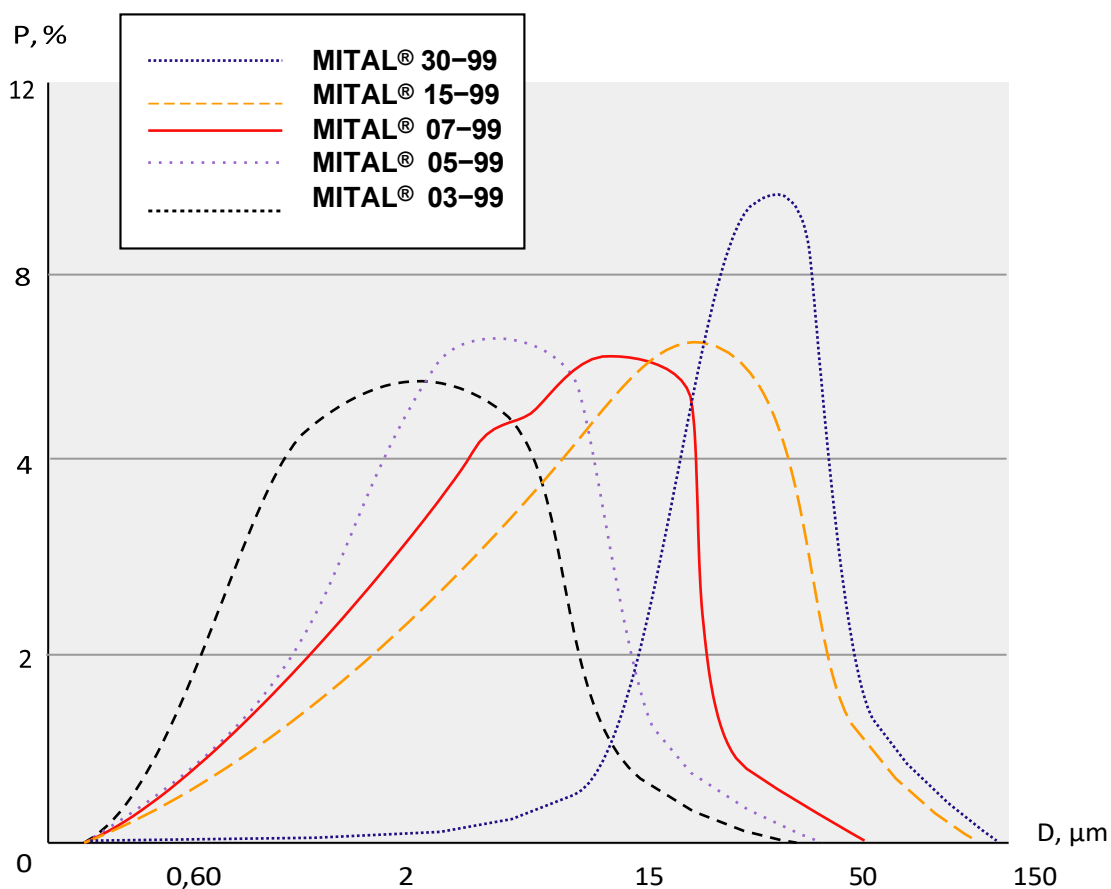
Parameters	MITAL®				
	30-92/97	15-92/97	10-92/97	07-92/97	05-92/97
Fraction of total mass, %					
MgO	30	30	30	30	30
SiO ₂	58	60	60	60	60
Fe ₂ O ₃	0,3	0,3	0,3	0,3	0,3
Fraction of total mass of burnt insoluble in hydrochloric acid residue, %	90	92	92	92	92
Chromatic preferences:					
whiteness CIELab (ISO 787/1, C/2°), %	90/95	92/96,5	92/97	92/97	92/96,5
lightness (L) no CIELab, %	90/95,5	92/96,5	92/97	92/97	92/96,5
brightness DIN 53163 (R _v , C/2°), %	80/90	82/91	82/91	82/91	82/90
yellowness ASTM D1925-70 (C/2°), %	1,1/2	1,1/2	1,1/2	1,1/2	1,1/2
brightness ISO 2470 (R ₄₅₇), %	76/89	78/90	80/90	80/90	80/89
whiteness ISO 11475 (D ₆₅ /10°), %	75/86	77/87	79/87	79/87	79/86
Fraction of total mass of screening residue, %					
№0063	5	2			
№0045	30	15	0,3	0,05	0,00
Mass fraction of particles with an equivalent sphere diameter, %, size (Microsizer-201A):					
less 20 µm	30	55	80	90	95
less 15 µm	20	50	65	75	85
less 10 µm	15	30	50	60	75
less 5 µm	5	10	20	30	40
less 2 µm		5	8	10	10
Average particle size distribution, µm (Microsizer-201A):					
medium (D ₅₀)	30	15	10	7	5
maximum (D ₉₈)	100	75	35	30	25
minimum (D ₁₀)	5	3	2,5	2	1,5
Oil absorption (ISO 787/5), g/100 g	20	25	29	34	45
DOP-absorption (ISO 787/5), g/100 g	30	35	39	44	50
Density (ISO 787/11), g/cm ³					
after packing	1,0÷1,2	0,8÷1,0	0,4÷0,5	0,3÷0,4	0,2÷0,3
	1,1÷1,3	1,0÷1,2	0,5÷0,6	0,4÷0,5	0,3÷0,4





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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.

