

PRODUCT SHEET

Title	MITAL[®] Fractionated microtalc of the SUPER serie
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
Product description	fine dry powder of the bright white (grade «99») or white (grades «92», «97») 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

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Technological quality parameters,
MITAL[®] microtalc of the SUPER serie, 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
Top cut, % (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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Technological quality parameters,
MITAL[®] microtalc of the SUPER serie, 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 _y , 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 ₆₅ /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:

Package - polypropylene containers with plastic bearing brasses.

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.

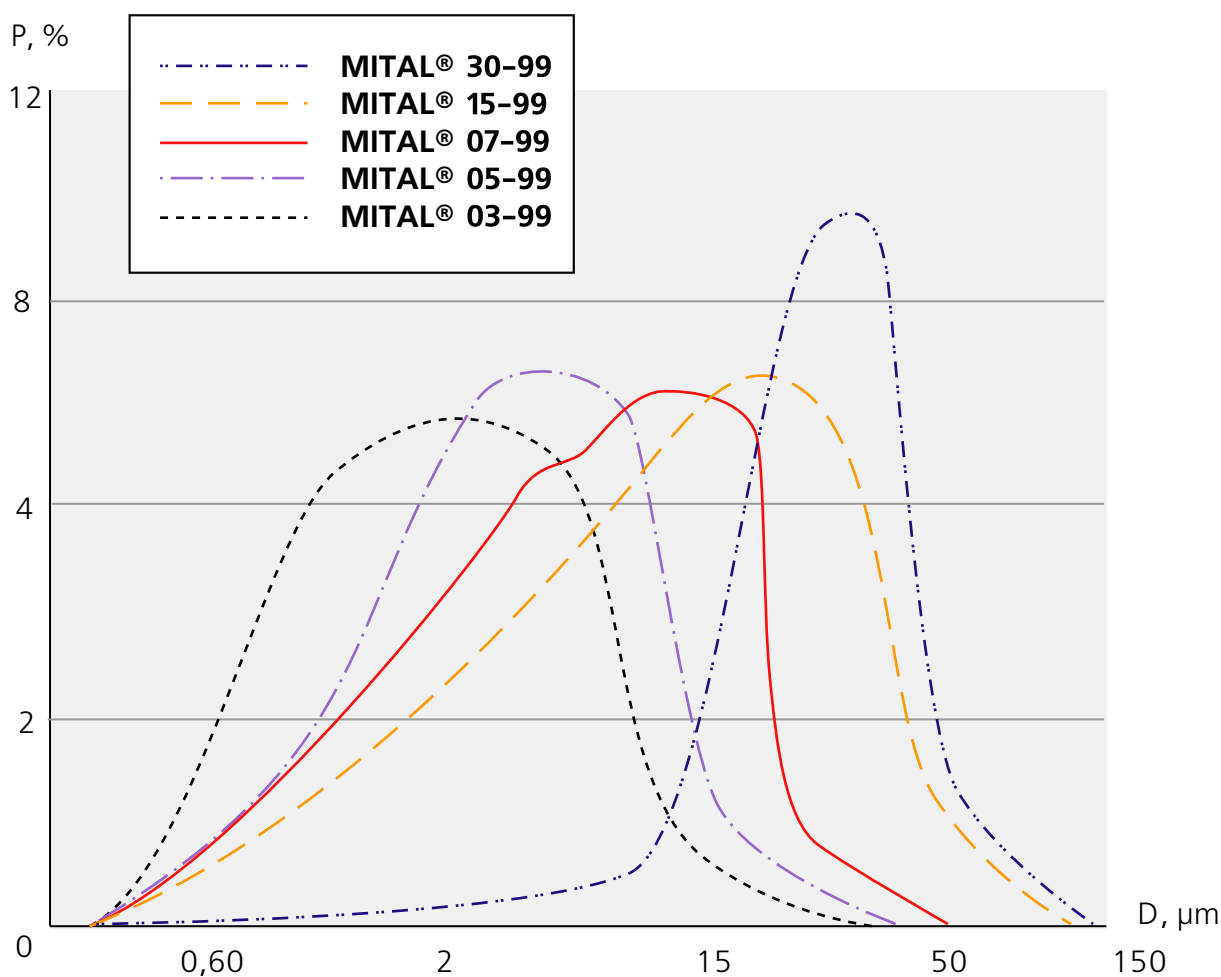
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Technological quality parameters,
MITAL® microtalc of the SUPER serie, grade «92»/grade«97»

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 _y , 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
Top cut, %, (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	1,0÷1,2	0,8÷1,0	0,4÷0,5	0,3÷0,4	0,2÷0,3
after packing	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 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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