PRODUCT SHEET

Title	**MIBARI®** Micronized barite of the SUPER series
Standard	TU 1769-002-40705684-2001
Grades	MIBARI® 15-96 | 10-96 | 05-96 |03-96|02-96| 01-96 15-98 | 10-98 | 05-98 | 03-98|02-98|01-98|95

Manufacturer	GEOKOM, Russia, Kaluga region, set. Polotnyaniy Zavod, st. Slobodka, 111, tel/fax + 748434 46006, 44816, 44817
Product description	fine dry powder of white color
Mineral formula	barite / natural barium sulphate

Chemical formula

$BaSO_4$	97÷99%
$CaCO_3$	0,2÷0,5%
Fe_2O_3	0,04÷0,1%
SiO_2	0,5÷2,0%
Water-soluble salts	< 0,1%

Physical and other parameters

Density, g/cm^3	4,3÷4,5
Hardness (Mohs)	3
Refractive Index	1,64
pH Index	8÷9
Humidity	< 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

ISO 9001/2008

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Tipical technological quality parameters micronized barite MIBARI® of the SUPER series

Paremeters	MIBARI®						
	15-98/96	10-98/96	05-98/96	03-98/96	02-98\98	01-98/96	95
Chromatic preferences:							
whiteness CIELab (ISO 787/1, C / 2 °),%	97,5/96	97,5/96	98/96	98/96	98\96	98/96	98
lightness (L) by CIELab,%	98/97	98/97	98,5/97	98,5/97	98.5\97	98,5/97	98.5
brightness DIN 53163 (Ry, C / 2 °),%	95/93	95/93	96/93	96/93	96\93	96/93	96
Yellowness ASTM D1925-70 (C / 2 °),%	3,5/4	3,5/4	2,5/4	2,5/4	2.5\4	2,5/4	2.5
brightness ISO 2470 (R457),%	93,5/90	93,5/90	94/90	94/90	94\90	94/90	94
whiteness ISO 11475 (D65 / 10є),%	88/85	88/85	91/85	91/85	91\85	91/85	91
~~whiteness ISO 11475 (D65 / 10є),%~~	~~90~~	~~90~~	~~93~~	~~93~~	~~93~~	~~93~~	~~93~~
Mass fraction of residue on sieve N0045 (ISO 787/5),%	5	0,1	0,05	0,02	0.00	0,00	0.00
Mass fraction of particles with an equivalent sphere diameter,%, size (Microsizer-201A):							
Less 20 µm	80	85	95	98			
Less 15 µm	50	70	90	95			
Less 10 µm	40	50	75	85	92	98	
Less 5 µm	25	35	50	65	75	90	99
Less 2 µm	15	20	30	35	50	60	95
Median particle diameter, µm (Microsizer-201A):							
medium (D_{50})	15	10	5	3	2	1,5	1.1
maximum (D_{98})	50	28	20	14	8	6	3
minimum (D_{10})	4,5	1,6	1	0,9	0.8	0,7	0.6
Oil absorption (ISO 787/5), g / 100 g	7	8	10	13	14	15	18
DOP absorption, g / 100g	10	11	14	17	18	20	24
Apparent density (ISO 787/11), g / cm^3	1,5÷1,7	1,5÷1,7	1,2÷1,4	1,1÷1,2	1,0÷1,1	0,8÷0,9	0,7÷0.8
the same after compaction	1,7÷1,9	1,6÷1,8	1,4÷1,6	1,2÷1,4	1,1÷1,2	1,0÷1,1	0,9÷1,0

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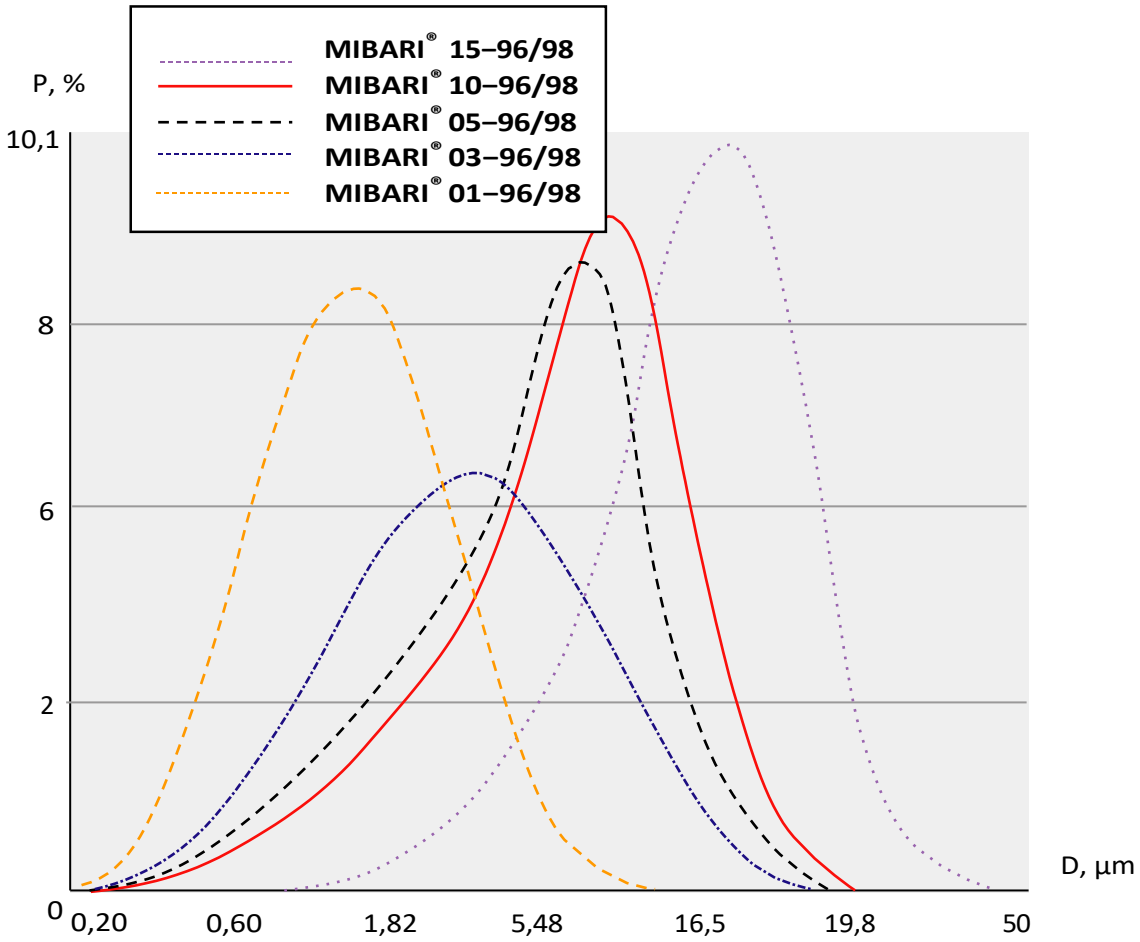
Typical weights distribution



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.

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