



GEOKOM

ENGINEERING
FILLERS

MIKAO®

CALCINED KAOLIN
SERIES "STANDARD"

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

PRODUCT SHEET

| | |
|---------------------|---|
| Title | MIKAO® kaolin series "STANDARD" |
| Standard | TU 5729-010-40705684-2005 |
| Grades | MIKAO® 15-90 10-90 05-90 03-90 02-90 |
| Manufacturer | GEOKOM, Russia, Kaluga region, set. Polotnyaniy Zavod, st. Slobodka, 111, tel/fax +748434 46006, 44816, 44817 |

Product description fine dry powder of the white color, tint is allowable

Mineral formula aluminium hydrosilicate

Chemical formula

Al_2O_3 35÷37%

SiO_2 48÷50%

Fe_2O_3 < 0,8%

Water-soluble salts < 0,15%

Physical and other parameters

Density, g/cm³ 2,5÷2,6

Hardness (Mohs) 1,5÷2,0

Refractive Index 1,62

pH Index 6,0÷9,0

Humidity, % < 0,1

Losses on ignition < 15%

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.





PRODUCT SHEET

Typical technological quality parameters kaolin MIKAO® series "STANDARD"

| Parameter | MIKAO® | | | | |
|---|--------|-------|-------|-------|-------|
| | 15-90 | 10-90 | 05-90 | 03-90 | 02-90 |
| Fraction of total mass of screening residue №0045, (ISO 787/5), % | 2,0 | 0,5 | 0,1 | 0,05 | 0,01 |
| Top cut, %, (Microsizer-201A), laser diffraction: | | | | | |
| less 20 µm | 60 | 75 | 85 | 90 | 99 |
| less 10 µm | 40 | 55 | 65 | 80 | 95 |
| less 5 µm | 25 | 40 | 50 | 70 | 85 |
| less 2 µm | 15 | 20 | 25 | 35 | 50 |
| Average particle size distribution, µm (Микросайзер-201А): | | | | | |
| medium (D ₅₀) | 15 | 10 | 5 | 3 | 2 |
| maximum (D ₉₈) | 75 | 50 | 40 | 30 | 15 |
| minimum (D ₁₀) | 1,4 | 1,2 | 1,1 | 1,0 | 0,8 |
| Chromatic preferences: | | | | | |
| whiteness CIELab (ISO 787/1, C/2°), % | 90 | 90 | 91 | 91 | 90 |
| lightness (L) по CIELab, % | 94 | 94 | 95 | 95 | 93 |
| brightness DIN 53163 (R _v , C/2°), % | 86 | 87 | 88 | 88 | 84 |
| yellowness ASTM D1925-70 (C/2°), % | 13 | 13 | 13 | 13 | 12 |
| brightness ISO 2470 (R ₄₅₇), % | 77 | 78 | 78 | 78 | 75 |
| whiteness ISO 11475 (D ₆₅ /10°), % | 54 | 55 | 55 | 55 | 53 |
| Oil absorption (ISO 787/5), g/100 g | 41 | 43 | 45 | 47 | 50 |
| DOP-absorption (ISO 787/5), g/100 g | 46 | 50 | 53 | 55 | 56 |
| Density (ISO 787/11), g/cm ³ | 0,3 | 0,25 | 0,23 | 0,2 | 0,18 |

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.

