

Microbrite®

FEATURES AND BENEFITS

The Microbrite® range of products are manufactured as a finely milled and classified powder using feldspar found in the pegmatite ore from our mining operation situated in the Limpopo Province in South Africa.

Microbrite® offers high dry brightness, inertness and acid resistance, heat stability, UV resistance, hardness and scrub resistance, as well as ease of dispersion in oils and water-based formulations.

The main uses of Microbrite® include:

- ❖ As inert functional fillers in paints, coatings, sealants, mastics and grouts.
- ❖ As bulking agents in high-performance industrial coatings.
- ❖ Within ceramic slips, frits and glazes.
- ❖ In rubber and waterproofing compounds.
- ❖ As fire extinguisher powder adjunct.
- ❖ In welding electrodes.
- ❖ In polishes and rubbing compounds.
- ❖ In gypsum and plastic plasters and castings.
- ❖ Promoting strength, heat and acid resistance in thermosetting polymers.
- ❖ In acrylics, butadiene, vinyl-acrylics and urethanes.
- ❖ In varnishes and cured products.

DATASHEET REVISION

Revision Number	07
Revision Date	07/05/2019

CHEMICAL ANALYSIS

Range values. These do not represent a specification.

SiO ₂ *	70.00-75.00 %
Al ₂ O ₃	15.50-18.00 %
Fe ₂ O ₃	0.10-0.20 %
K ₂ O / Na ₂ O	9.00-11.00 %
MgO	<0.10 %
TiO ₂	<0.01 %
CaO	<0.50 %
P ₂ O ₅	<0.05 %
LOI	<0.50 %

* SiO₂ is chemically bound within the Pegmatite.

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification.

		2	5	10	15
Trade Names		Microbrite 2	Microbrite 5	Microbrite 10	Microbrite 15
% Retained @ 106 µm	% weight	N/A	N/A	N/A	** <2.0
% Retained @ 75 µm	% weight	N/A	N/A	** <1.0	N/A
% Retained @ 63 µm	% weight	N/A	** <1.0	N/A	N/A
% Retained @ 25 µm	% weight	** <2.0	N/A	N/A	N/A
Average Particle Size, d ₅₀	µm	6.8	12.7	20.1	27.6
Oil Absorption	%	25	22	21	17
Reflectance (Opacity Reflectometer)	%	93	92	92	92
Bulk Density (As Packed)	kg/litre	0.70	0.85	0.90	0.93
Specific Gravity	kg/litre	2.59	2.59	2.59	2.59
Hardness	mohs	6	6	6	6
Melting Point	°C	>1100	>1100	>1100	>1100
Packaging: 1000kg bulk bags		Yes	Yes	Yes	Yes
25kg packed bags		Yes	Yes	Yes	Yes

** Quality controlled by means of wet sieve analysis

Notice: While information contained herein is correct to the best of our knowledge, Micronized Products hereby disclaims any warranties as to the accuracy of the information. Recommendations or suggestions are made without guarantee or representation as to result, since conditions of usage are beyond our control. All materials are sold subject to Micronized Products' standard terms and conditions of sale including the condition that the buyer shall conduct his own tests to determine the suitability of each product for the buyer's purpose. No statement contained herein shall be construed as a recommendation to infringe any patent.

FELDSPAR • SILICA • TALC • MICA • BARYTES • VERMICULITE • KAOLIN

Directors:
BS Booth, RH Weissenberg, KK Watson

Micronized SA Ltd, Reg. No 2007/005688/06

JOHANNESBURG (HEAD OFFICE)
P.O. Box 91575
Auckland Park, 2006, South Africa
Tel: +27 11 486-1919
Fax: +27 11 486-1928
E-mail: info@micronized.com

LIMPOPO – UNION MINE & WORKS
Private Bag X3010
Phalaborwa, 1390, South Africa
Tel: +27 15 817-1828
Mica, Limpopo
GPS: 24°09'23.4"S, 30°49'41.4"E

JOHANNESBURG FACTORY
69 Barney Road
Benrose, 2094, South Africa
Tel: +27 11 624-0909
Benrose, Johannesburg
GPS: 26°12'38.3"S, 28°05'03.3"E

GRAHAMSTOWN FACTORY
1 Victoria Street (off Cobden Street)
Grahamstown, 6140, South Africa
Tel: 011 486-1919 (head office)
Grahamstown, Eastern Cape
GPS: 33°18'29.1"S, 26°32'08.8"E