

# Molochite™



Molochite™  
is a trade mark of  
IMERYS Minerals Ltd

ECC is a business name of  
IMERYS Minerals Ltd

The data quoted are  
determined by the use  
of ECC Standard Test  
Methods, copies of  
which will be supplied  
on request. Every  
precaution is taken in  
production to ensure  
the products conform  
to our published data.  
Since the products are  
based on naturally  
occurring materials, we  
reserve the right to  
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should it become  
necessary. Sales are in  
accordance with our  
"Conditions of Sale",  
copies of which will be  
supplied on request.



FM14752  
BS EN ISO 9001:2000

## PRODUCT SPECIFICATION

### Chemical Composition (mass %):

Al<sub>2</sub>O<sub>3</sub>  
Fe<sub>2</sub>O<sub>3</sub>  
K<sub>2</sub>O

Value

Range  
Min Max

C1/500/C

June 2003

Molochite  
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Seventh Edition.  
This supersedes  
the document dated  
December 2002

Magnetics (ppm max.)  
Rare Earth Magnet

Coarse grades  
Intermediate grade  
-200 GL  
Other milled grades  
DC

170  
280  
50  
120  
800

### TYPICAL DATA

The following data is provided for information  
only and is derived from quality control tests  
over a number of years. It does not constitute  
a specification.

### Chemical Composition (mass %):

SiO<sub>2</sub>  
TiO<sub>2</sub>  
CaO  
MgO

54,5  
0,07  
0,06  
0,31

Mineralogical Composition by  
X-ray diffraction (mass %):

Mullite  
Amorphous material

55  
45

### Thermal expansion:

Coefficient of expansion, 20-1000°C

4,44 x 10<sup>-6</sup>

### Specific gravity:

2,70

### True Porosity (vol. %)

8

### Refractoriness:

Initial deformation  
Squatting

1750-1770°  
+ 1770°

(Cone 34 - 35)  
(+ Cone 35)

### Hardness:

Moh's scale

7- 8

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**PRODUCT SPECIFICATIONS**

Cumulative mass % finer than the denoted sieve aperture

Key:

Maximum	X	X
Minimum	X	X

Where no maximum and minimum values are shown, then Mean Value is indicative only.

GRADING	Coarse				Intermediate						Milled			Other								
	1/4-8	8-16	-8	16-30	16-30DD	18-36DD	22-60DD	-22	30-80DD	-30	50-80DD	-80	-120	-200/-200GL	-325	DC	Superfine					
Nominal Sizes	2.00 to 6.70	1.00 to 2.00	0 to 2.00	0.5 to 1.00	0.5 to 1.00	0.425 to 0.85	0.25 to 0.71	0 to 0.71	0.18 to 0.50	0 to 0.50	0.18 to 0.30	0 to 0.18	0 to 0.125	0 to 0.075	0 to 0.053	-	0 to 0.01					
MIM	BSS	AFNOR	DIN																			
9.5	-	-	10.00																			
6.70	1/4	38*	6.30	100/100																		
4.75	3/2	38*	5.00																			
4.00	4	37	4.00	96/52																		
2.80	6	35*	2.80	100/100																		
2.00	8	34	2.00	100/98	100/98																	
1.70	10	33*	1.80*	10/2	98/77																	
1.18	14	32*	1.25		100/99																	
1.00	16	31	1.00	3/0	94/51	100/100	100/100	100/100														
0.85	18	30*	0.80			100/99																
0.71	22	29*	0.71	2/0	64/20	100/63	100/98	100/91	100/100	100/100												
0.50	30	28	0.50		61/14	36	22/0	12	15/0	7	14/0	3	92/52	70	100/99	100/98						
0.355	44	26*	0.355		5/0	1	5/0	1	4/0	2	2/0	1	76/33	52	75/39	57	91/66	100/100				
0.300	52	26*	0.315																			
0.250	60	25	0.250		40/3	17	2/0	0	1/0	0			60/17	36	25/0	11	71/35	54	100/100			
0.180	85	24*	0.200*										2/0	1	4/0	2	14/0	6	100/96			
0.150	100	23*	0.160		29/0	9							37/6	20	3/0	1	44/16	30	5/0	98		
0.125	120	22	0.125																			
0.075	200	20*	0.080*		17/0	4							16/2	8			18/4	11			88	
0.053	300	18*	0.050										78/66	72	96/92	96/95					96/45	
0.020																						47
0.010																						22
0.002																						100/94
																						62/19
																						40

\*Nearest equivalent