

# PHLOGOPITE MICA FILLER



## KI-20

DAMSILA KI-20 phlogopite filler is a powder product which is mined and processed in Sri Lanka. It can be added to wall boards to reduce shrinkage, increase thermal insulation and improve resistance to fire. It is often added to fire-resistant cements and plaster to improve their fire resistance and thermal stability.

### TYPICAL PROPERTIES

Unit Density	≤ 0.35 g/ml
Moisture <sup>1</sup>	≤ 1.0%
pH	7.4

### CHEMICAL ANALYSIS<sup>2</sup>

Constituent Determined	Content (%)
SiO <sub>2</sub>	41.29
Al <sub>2</sub> O <sub>3</sub>	16.32
Fe <sub>2</sub> O <sub>3</sub>	7.88
K <sub>2</sub> O	8.18
LOI ( <i>Loss On Ignition</i> )	2.85

### TYPICAL PARTICLE SIZE DISTRIBUTION<sup>3</sup>

Sieve Analysis ( <i>wt. % Retained</i> )	Typical Value (%)
+20	61.0 ± 10
-20/ +40	19.3 ± 10
-40/ + 60	9.4 ≤ 15
-60/+80	4.0 ≤ 10
-80/+100	2.2 ≤ 5
-100/+200	2.4 ≤ 5
-200/+325	1.3 ≤ 5
-325	0.4 ≤ 1

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1. Tested method: Automated Halogen Moisture Analyzer.
2. Analysis was carried out on the powdered sample dried at 105 °C - 110 °C
3. ASTM Mesh standard.