



Cylindrical heat insulator for forming machine.

LIGHTWEIGHT MATERIAL SERIES

KALHON-L

General-purpose heat-resistant material with flexible workability

- General purpose with flexible workability
- Superior heat insulation
- Excellent durability at high temperatures
- Ultra-light board

Demands for heat insulation and heat retention are being diversified. To meet such demands, heat retaining and insulation materials must have flexibility as industrial materials. KALHON-L of Nikko Kasei has achieved this from plate structure to cylindrical shapes, plus excellent workability with density control, integral construction and lamination. KALHON-L was also developed as heat-resistant, heat-retaining and heat-insulation material with high performance.

In addition to its workability, KALHON-L has low thermal conductivity $0.077\text{W/m}\cdot\text{K}$ and durability at a temperature of 500°C , KALHON-L is being applied in many areas such as " mold heat retaining material ", " heat insulation material for high-temperature facilities ", " heat-retaining plates in heating elements ", and " material for dew condensation prevention ", etc.



Specifications for KALHON-L	
Thickness	Material dimension
10mm 20mm 30mm	1,000mm x 1,000mm

Physical Properties of KALHON-L			
Test Items		Unit	
Heat resistance			500
Flexural strength	Vertical to laminations	MPa	8.9
Izod impact strength		J/cm	1.2
Water absorption		%	6.3
Thermal conductivity		$\text{W/m}\cdot\text{K}$	0.077
Coefficient of thermal expansion	Vertical to laminations	1/	7.4×10^{-5}
	Parallel to laminations	1/	3.1×10^{-5}
Specific gravity			0.5
Arc resistance		sec	250