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Heavy mineral resources for industrial applications



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Sillimanite



CAS No. : 12141-45-6

Formula : $\text{Al}_2(\text{SiO}_4)\text{O}$

General Description : Sillimanite, also called Fibrolite, is a colorless, or white glassy silicate mineral frequently found in fibrous aggregates. It occurs in high-temperature regionally metamorphosed clay-rich rocks.

Chemical analysis

Minerals	Contents (%)
Sillimanite + Kyanite min	88.0
Kyanite max	8.0 - 9.0
Al_2O_3 min	58.0
Rutile max	0.5 - 0.75
Monozite max	0.25
Zircon max	3.0 - 7.0
Quartz max	4.0 - 8.0

Sieve Analysis

Sieve (Mesh/Microns)	Weight (%)
40/420	0.56
60/250	25.37
80/177	42.61
100/149	16.44
120/125	9.40
140/105	3.67
170/88	1.16
-170	0.77

Physical properties

Hardness :	6½ - 7½ on Mohs scale
Density :	3.23 - 3.27 g/cm ³
Lustre :	Sub-Vitreous, Greasy, Silky
Transparency :	Transparent, Translucent
Colour :	Colorless, white, yellow
Streak :	White
Tenacity :	Brittle
Fracture:	Irregular/Uneven