Calight 50

High Alumina Cement

- Minimum of 50% Al₂O₃
- Refractory applications
- High strength development
- Light in colour
- Can be used to accelerate set in OPC
- Increased early strength
- Produced using high purity Bauxite

Calight[®] 50 is a calcium aluminate cement with a minimum Al₂O₃ content of 50%. It is produced in a rotary kiln using high purity bauxite and limestone. Due to its very light colour, Calight[®] 50 can not only be used in refractory applications, but also in further building chemistry where a light colour is needed.

Most often, Calight[®] 50 is used in combination with Ordinary Portlandcement to accelerate setting times and improve early strength development. A negligible amount of of free lime is produced, resulting in an improved resistance against acids and sulphate attack.

When applied in its pure form combined with heat resistant aggregate, Calight[®] 50 can withstand extremely high temperatures, making it suited for a wide variety of refractory applications.

Technical data

Setting times

(according to Vicat, when combined with OPC at a 1:2 ratio)

Initial set Final set	~ ~		- 1:10 minutes - 1:45 minutes
Temperature development: Achieved after		:	≥ 37°C ≤ 8:00 min

Compressive Strength development

(500 grams of Calight[®] 50 tested with 1350 grams of normalized sand)

Time	Flexural Strength	Compressive Strength
6 hours	≥ 3,50	~ 30,00
24 hours	≥ 6,50	~ 65,00
72 hours	≥ 7,50	~ 70,00



The information given above is based on our current experiences and knowledge of the product. It gives no guarantee of the eventual result. The customer remains responsible for testing the product before use. Caltra Nederland B.V. cannot be held responsible for possible damage caused by (incorrect) use of its products. For additional information with regard to safe use, please consult the Material safety datasheet (SDS)

