

# CASUL® Pulver H1i

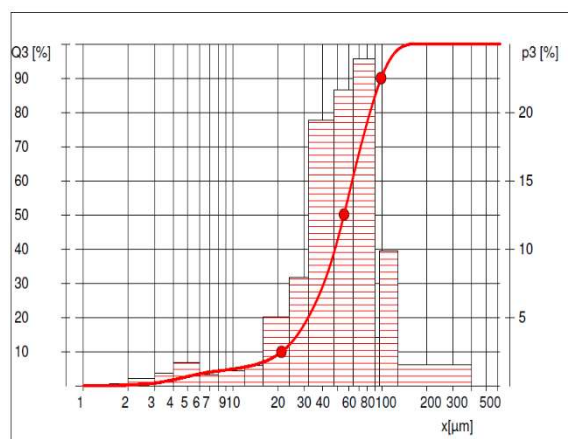
> Product Data Sheet:

**CASUL® Pulver H1i** is a high-purity powder based on calcium aluminate sulfate and can be used as a multifunctional filler and for dispersion paints and plasters.

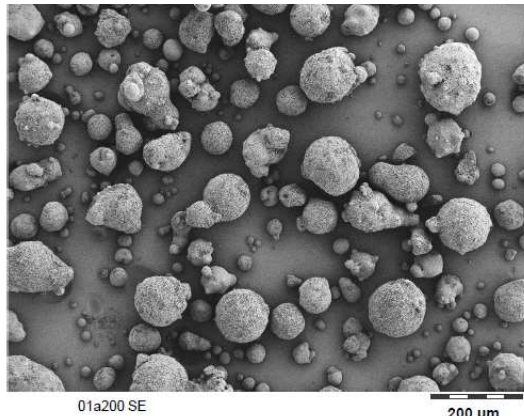
> Chemical composition	
■ Chemical identification:	Calcium aluminate sulfate
■ Chem. formula:	$3 \text{ CaO} \times \text{Al}_2\text{O}_3 \times 3 \text{ CaSO}_4 \times 32 \text{ H}_2\text{O}$
■ CaO:	approx. 26,9 %
■ Al <sub>2</sub> O <sub>3</sub> :	approx. 13,2 %
■ Fe <sub>2</sub> O <sub>3</sub> :	< 0,1 %
■ Water of hydration:	45 %

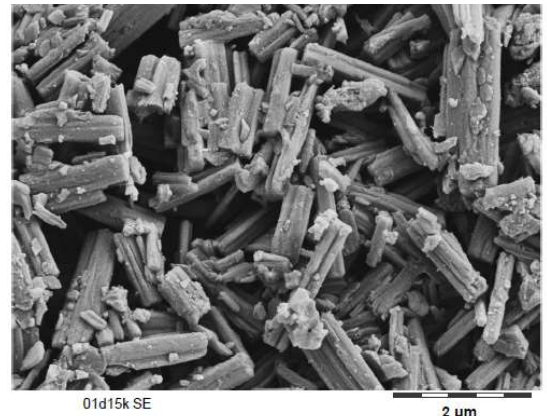
> Technical data and properties	
■ Appearance:	white powder
■ Crystal habit:	needle-like
■ Spec. gravity:	approx. 1,79 g/cm <sup>3</sup>
■ Bulk weight, loose:	600 g/l
■ Bulk weight, mashed:	690 g/l
■ Oil adsorption:	35 g linseed oil / 100g powder
■ Whiteness (R457 with UV):	> 96 %
■ Spec. surface (BET):	8,8 m <sup>2</sup> /g
■ Lab-values:	L* = 94,60      a* = 0,01      b* = 1,95
■ CIE Whiteness with UV:	94
■ Refractive index:	1,49
■ Aspect Ratio:	4,23 (at 100 measurements)
■ Particle Size:	d <sub>50</sub> = approx. 50-70µm



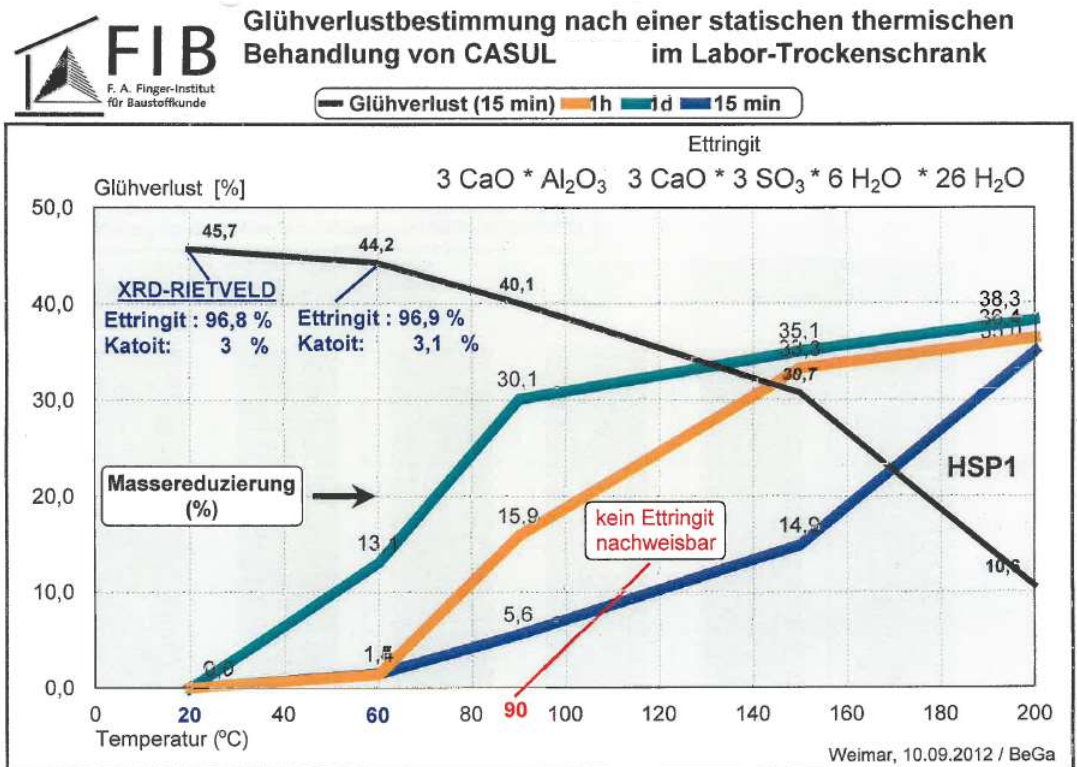
[Particle size measurement dry (CASUL® Pulver H1i)]



[REM-scan CASUL® Pulver H1i (200 µm)]



[REM-scan CASUL® Pulver H1i (2 µm)]



[Water of crystallization behavior of CASUL® – Quelle: FIB – F.A. Finger-Institut für Baustoffe]

> Applications	
■ Paintindustry	White mineral in high-covering and pollution-free dispersion wall paints
■ Fire protection	In building materials and colors: Due to the high proportion of water of crystallization (45%) CASUL® increases fire protection in rooms and buildings.
■ Construction chemicals	Use in the field of building materials and construction systems. Both liquid plasters and dry plasters can be produced on the basis of the binding properties of the white mineral on a purely mineral basis.

### CASUL® Pulver H1i

- CASUL® Pulver H1i is safe for contact with food according to ISEGA report (FDA approval)
- Optimal flame retardancy - with a water of crystallization content of 45%.
- Without addition of biocides and preservatives
- Suitable for the production of biocidal and preservative-free products, with high degree of whiteness

### Handling / Storage / Application

**CASUL® Pulver H1i** can be stored in VA- or PE-plastic containers. Aluminum or non-ferrous metals are unsuitable. It is preferably delivered in bags of 25 kg and should be stored dry and cool.

Es gelten die allgemeinen Geschäftsbedingungen der **REMONDIS** Production GmbH.