

**UNICALCE S.p.A.
TECHNICAL DATA SHEET****1. PRODUCT COMMERCIAL NAME****Calce idrata alto titolo****2. PRODUCTION PLANTS**

Unicalce in Val Brembilla, Via Ponti, 18 I-24012 Val Brembilla (BG)

3. KIND OF PRODUCT AND CONFORMITY TO RULES AND REGULATIONS

Fine calcium hydrated lime; Calcium hydroxide: $\text{Ca}(\text{OH})_2$; substance of technical purity
Chemical name and formula of the main substance: Calcium hydroxide, $\text{Ca}(\text{OH})_2$
CAS number 1305-62-0; EC number 215-137-3; EINECS name: Calcium (di)hydroxide

Regulation (EC) N. 1272/2008, CLP:

STOT S.E. cat. 3, aspiration hazard; skin irritation cat. 2; eye damage cat.1

Regulation (EC) N. 1907/2006, REACH:

Registered substance by the European Chemical Agency (ECHA) on 5th October 2010.

Neither the main substance nor the secondary ones are among SVHC to be included in Annex XIV.

4. PHYSICAL PROPERTIES FOR THE IDENTIFICATION

Appearance: Solid in fine powder

Colour: White

Odour: Odourless

CHARACTERISTIC	VALUE	TEST METHOD
Bulk density:	400-500 kg/m ³	UNI EN 459-2:2010
$\text{Ca}(\text{OH})_2$ water solubility:	1,7 g/l	(20 °C, demineralized water without CO_2)
pH of the saturated solution:	12,5	(25 °C, demineralized water without CO_2)

5. PHYSICAL AND CHEMICAL PROPERTIES (*)

CHARACTERISTIC	VALUE	TEST METHOD
Sieve residue 0,200 mm:	< 0,05%	UNI EN 12485:2011 (**)
Sieve residue 0,090 mm:	< 1%	UNI EN 12485:2011 (**)
Sieve residue 0,032 mm:	< 2%	UNI EN 12485:2011 (**)
Title in soluble calcium hydroxide in water, available lime $\text{Ca}(\text{OH})_2$:	> 95%	UNI EN 12485:2011
MgO total:	< 2%	UNI EN 12485:2011, AA spectrophotometry
CO_2 residue (CaCO_3 residue):	< 1% (< 2,3%)	Calcimeter or automatic instrument ELTRA or LECO type
($\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$) total combined:	< 0,5%	UNI EN 12485:2011
S total (SO_3 total) combined:	< 0,04% (< 0,1%)	automatic instrument, ELTRA or LECO type
Free water (humidity):	< 0,8%	UNI EN 12485:2011

(*) For samples taken from the plant, before packaging the product or loading it on road tankers.

(**) Air jet sieving method, ISO R20 sieves.

6. DELIVERY

Bulk on road tankers, with pneumatic discharge.

Packaged in paper bags on pallets and protected by P.E. plastic film.

Note: the present technical data sheet cancels and replaces the previous one.

Lecco, 5th May 2015