

## MIRACEM L-12-F®

Canadian-made **Miracem L-12-F®** micronized glass is produced entirely from clean sourced post-industrial clear glass. Its constant physical properties, its low loss on ignition, its controlled granulometry make **Miracem L-12-F®** a material of choice for reintegration into products with high added value. Micronized glass is a translucent product that does not contain crystalline silica, it does not change the pigmentation of opaque or colored formulas but could reduce the shine or Gloss. For Portland cement concrete applications it complies with **CSA A3000-18**.

Its high percentage of amorphous  $\text{SiO}_2$  and the boost it receives from fumed silica makes it ultra efficient when compared to other similar cement additives. Chemically stable and safe in nature, **Miracem L-12-F®** micronized glass allows its use in concretes, mortars, grouts and many other applications. In mortel and concrete, the micronized glass **Miracem L-12-F®** acts as a pozzolan material. **Miracem L-12-F®** contains a CSA approved grinding agent which reduces the Pack-Set phenomenon.

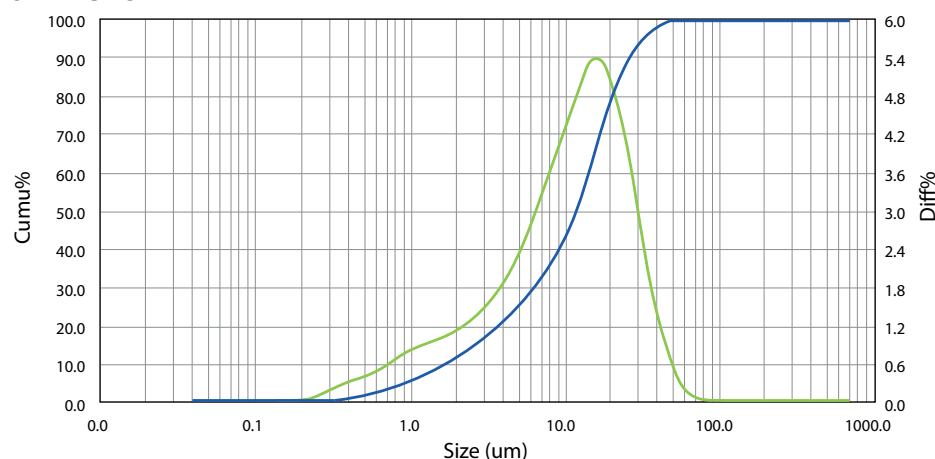
### PROPERTIES

D50 (median)	12 $\mu\text{m}$	> 45 $\mu$	3%
Specific gravity	2.53 $\text{g/cm}^3$	Bulk density	1.0 $\text{g/cm}^3$
Fusion point	980 °C	Softening point	590 °C
Hardness	5.5 Mohs	Refractive index	1.47
Oil absorption ASTM D-281	31	Specific surface	470 $\text{m}^2/\text{kg}$
Apparent Color	White	Whiteness	90 Min.
Maximum moisture content	0.5%	Loss on ignition	< 0.5%

### TECHNICAL DATA

Glass composition:  $\text{SiO}_2$  >73%, CaO 7.39%,  $\text{SO}_3$  0.4%,  $\text{Na}_2\text{O}$  10.20%. Contains amorphous silica.

### GRANULOMETRY



### AVAILABILITY

25 kg bags, SuperSac and bulk.

### IMPORTANT NOTE:

Store in a dry place, protect from bad weather and excessive humidity.

**FDA CLASSIFICATION:** These products fall under the USA Code of Federal Regulations

Title 21 CFR 177 Indirect Food Additives. Sections 178.3297, 176.170c (Table 1), 176.17c (Table 2).