

# OSCRETE 67/36mm fibre

## Alkali Resistant Glass Macro Fibre for Concrete

### Description

**Oscrete 67/36** is a high performance alkali resistant glass macro fibre, engineered to reinforce against plastic, thermal and drying shrinkage cracking. **Oscrete 67/36** increases flexural strength and ductility, and adds toughness, impact and fatigue resistance to the concrete. **Oscrete 67/36** can also be used as secondary reinforcement and in specific applications also as primary reinforcement.

### Applications

**Oscrete 67/36** disperses quickly and evenly throughout the concrete matrix, because the specific gravity is similar to the aggregates used in concrete. This inherent characteristic of glass guarantees high fibre performance throughout the concrete mass.

**Oscrete 67/36** has been specially designed to replace secondary and primary reinforcement (welded wire reinforcement, light rebar, steel and synthetic fibres) in residential, commercial and industrial slabs on ground, compression layers, pavements and precast concrete.

### Benefits in Concrete & Screed

- high dispersion.
- no additional water demand
- does not corrode.
- control & prevention of cracking.
- improves mechanical properties.
- improved abrasion resistance.
- impact resistance.



### Properties

Nature	AR Glass Fibre
Colour	Opaque
Specific Gravity	2.68 g/cm <sup>3</sup>
Fibre Length	36.0mm
Chemical Resistance	Very High
Modulus of Elasticity	72 GPa
Tensile Strength	1,700 MPa
Softening Point	860°C

### Addition Rates

Dosage rates will be dependant on mix design, process, types of aggregates and the desired effect but typically:

**1 x 5kg bag per m<sup>3</sup> of concrete**

### Standards

**Oscrete 67/36** are manufactured under the ISO 9001 quality managers scheme.



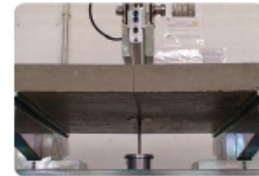
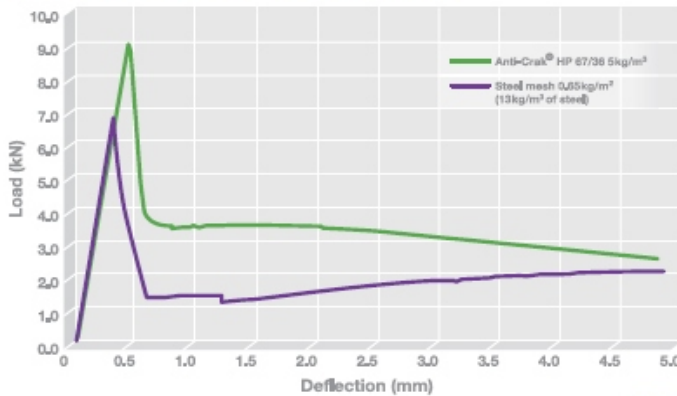
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### SECONDARY REINFORCEMENT:

Thermal and shrinkage cracking prevention

Product: Anti-CRAK® HP 67/36 @ 5kg/m<sup>3</sup>



3 point flexural test on 600 x 600 x 50mm slab

Alternative solution to anti-cracking mesh in order to control thermal and drying shrinkage cracking in residential and light commercial floors.



### PRIMARY REINFORCEMENT:

Steel mesh and rebar replacement

Product: Anti-CRAK® HP 67/36 @ 5-15kg/m<sup>3</sup>

At different levels of fiber addition Anti-CRAK® HP 67/36 provides a higher peak strength than plain concrete, due to the total bond between fiber and matrix, which allows the contribution of the fiber action even before the peak load, at the very beginning of the microcracking process. Subsequently, Anti-CRAK® HP 67/36 provides residual strength over a large range of crack openings.

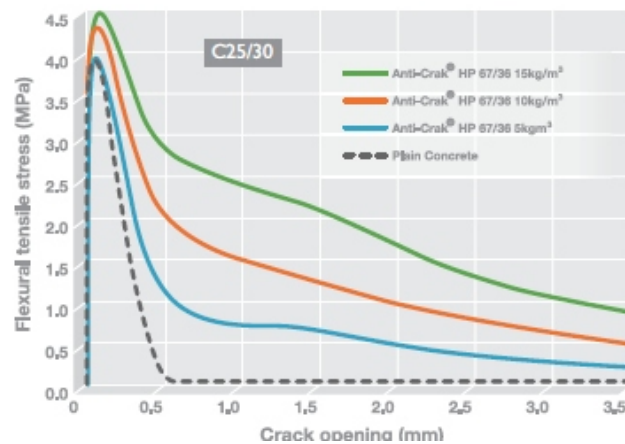
EN 14651 Flexural Test



**First**  
Structural  
macro glass fiber  
with CE mark



Macro glass fibers pulled out of the matrix at the fracture plane



**OSCRETE**  
CONSTRUCTION PRODUCTS



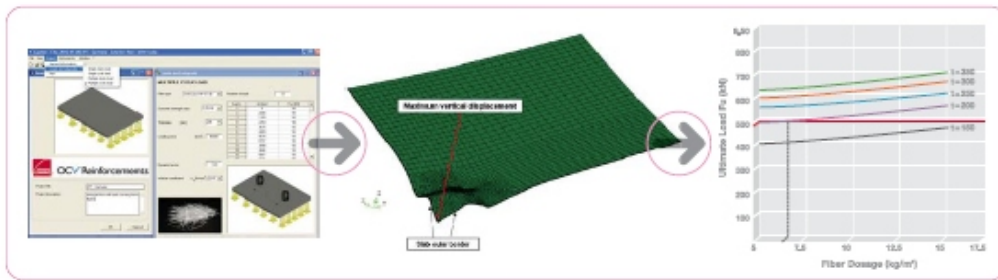
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### Slab-on-ground design

All over the world, OC offers local support to glass fiber reinforced concrete projects. From fiber selection, mix design, and general FRC practical guidance, to modern structural design by non-linear fracture mechanics following the new fib Model Code 2010. In this way, fiber contribution is maximized, providing safer and cost-efficient designs.

Our design software collects all necessary project details, and processes them through a finite element analysis plus non-linear fracture mechanics data base. The output includes the fiber content versus ultimate load relationship for different slab thicknesses, and the corresponding project requirements.



### Compatibility

Oscrete 67/36 is compatible with all types of EN 197 cement systems.

### Storage

Store the product in a dry environment.

### Handling

Please refer to the **Oscrete 67/36** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

### Packaging

Oscrete 67/36 is supplied in 5kg plastic bags.

#### Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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