METALLIC FIBERS

GENERAL DESCRIPTION

The structural steel fibers can 100% replace the classical reinforcing steel or the steel mesh in any ground-level constructions. They are the most used and known type of reinforcement fibers in the world, as they are far more time and cost efficient than the classical armature. Based on our price offer you could calculate these savings exactly.

ADVANTAGES

- Disperse structural reinforcement (which means reinforcing each centimeter of concrete);
- Logistics (the amount of steel or steel mesh are reduced);
- Handling (the reinforcement is done by simply mixing the fibers in the concrete);
- The characteristics of the concrete are improved (compression endurance and elasticity);
- Helps achieving a homogeneous ductile concrete, increases its elasticity and, as final result, increases bearing in concrete elements;
- Reduces the contraction of the concrete;
- Reduces the possibility of forming cracks on the surface;
- Increases the wear-proofness of the floor;
- Increases floor resistance even at temperature changes and thermic shocks;
APPLICATION EXAMPLES

- Industrial flooring;
- Highways paving;
- Airport runways;
- Earthquake resistant structures;
- Maritime structures;
- Lining tunnels;
- And other ground-level constructions.

TRANSPORT AND STORAGE OF METALLIC FIBERS

- The shipping is done only by weatherproof transport means.
- The packing will be on pallets of 1 ton. Each pallet is being wrapped in stretch film;
- The storage has to be done in covered spaces, protecting the product from any atmospheric factors that might degrade the packaging.
- For handling the wooden pallets, the staff has to be instructed in order to avoid the deterioration of the stretch film or the paper bags.

MIXING AND HOMOGENIZATION

Mixing and homogenization can be achieved either at the concrete station or directly in the truck mixer in 5 to 7 minutes at high speed.
TEHNICAL DATA SHEET FOR RFC 45/50 HOOKED-END STEEL FIBERS
Disperse concrete reinforcement fibers for structural or nonstructural usage

FIBER CHARACTERISTICS: Group I

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Measure Unit</th>
<th>Standard values</th>
<th>Deviations Limit</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter, D</td>
<td>mm</td>
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<tr>
<td>Length, L</td>
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<tr>
<td>Aspect ratio, L/D</td>
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<tr>
<td>Tensile strength Rm</td>
<td>N/mm²</td>
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<td>±15%</td>
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</tr>
<tr>
<td>Bend trials</td>
<td></td>
<td>min. 3 bending</td>
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</table>

Recommended Dosage: min. 15 kg /m³
Fibers total/ kg = 2800

TEHNICAL DATA SHEET FOR RFC 80/60 HOOKED-END STEEL FIBRES
Disperse concrete reinforcement fibers for structural or nonstructural usage

FIBER CHARACTERISTICS: Group I

<table>
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Recommended Dosage: min. 10 kg /m³
Fibers total/ kg = 4600
# TEHNICAL DATA SHEET FOR CORRUGATED STEEL FIBERS RFO 1.05x30
Disperse concrete reinforcement fibers for structural or nonstructural usage

![Diagram](image)

<table>
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<tr>
<td>Bend trials</td>
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<td>min. 3 bending</td>
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</tbody>
</table>

Recommended Dosage: min. 5 kg /m³
Fibers total/ kg = 5300

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# TEHNICAL DATA SHEET FOR CORRUGATED STEEL FIBERS RFO 1.05x50
Disperse concrete reinforcement fibers for structural or nonstructural usage

![Diagram](image)

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<tr>
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<td>Tensile strength Rm</td>
<td>N/mm²</td>
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<tr>
<td>Bend trials</td>
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<td>min. 3 bending</td>
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</tbody>
</table>

Recommended Dosage: min. 15 kg /m³
Fibers total/ kg = 2800

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www.romfracht.com
www.fibre-polipropilena.ro
CERTIFICATIONS

Product Certifications

System Certifications

EN-14889-1/2007

Storage

Packaging

For optimal usage and maximum efficiency, please contact our technical department by e-mail: tehnic@romfracht.com or by phone: 0040212561208
For orders please contact our sales department by e-mail: sales@romfracht.com, by phone: 0040212561208 or by fax: 0040317309454