TECHNICAL DATA

CETCO® TC BOOSTER
THERMAL CONDUCTIVITY BOOSTER

DESCRIPTION
CETCO TC BOOSTER is an additive used to boost the thermal conductivity of CETCO GEOTHERMAL GROUT. The shape of the CETCO TC BOOSTER is a large flake which maximizes the thermal conductivity potential while reducing the amount of dust produced when utilizing the product in the field. CETCO TC BOOSTER is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals – Health Effects.

RECOMMENDED USE
CETCO TC BOOSTER is a graphite product that has several uses. Uses include:
- Thermal Conductivity Booster for GEOTHERMAL GROUT™
- Additive to Increase Lubrication of Drilling Fluid
- Lost Circulation Additive
- Heat Dissipation Additive

MIXING ORDER AND APPLICATION
1. Meter freshwater in a paddle-mixing tank of a commercial grout mixer.
2. Start the grout mixer paddle, and add one 50 lb bag of CETCO GEOTHERMAL GROUT to the freshwater. Mix until GEOTHERMAL GROUT is hydrated and has an oatmeal consistency. If using sand, add sand at a steady rate, and continue mixing for another minute.
3. Add CETCO TC BOOSTER to the mixer and stir until the CETCO GEOTHERMAL GROUT and the CETCO TC BOOSTER is homogenous.
4. Pump through a tremie pipe at a rate of 5 to 15 gallons per minute.
*An increase or decrease in water by 1 gallon per batch can either decrease or increase TC values by approximately 15%.

PACKAGING
≈24 lb bag (11 kg), 88 bags per pallet. All pallets are plastic-wrapped.

<table>
<thead>
<tr>
<th>TARGET THERMAL CONDUCTIVITY</th>
<th>1.0</th>
<th>1.2</th>
<th>1.4</th>
<th>1.6</th>
<th>1.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBS GEOTHERMAL GROUT</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>LBS TC BOOSTER</td>
<td>18</td>
<td>24</td>
<td>36</td>
<td>48</td>
<td>58</td>
</tr>
<tr>
<td>GALLONS FRESHWATER</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>16</td>
<td>17</td>
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<tr>
<td>GROUT WEIGHT (LBS/GAL)</td>
<td>10.57</td>
<td>10.72</td>
<td>10.92</td>
<td>11.03</td>
<td>11.24</td>
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<tr>
<td>GROUT VOLUME (GAL)</td>
<td>18.44</td>
<td>18.76</td>
<td>19.23</td>
<td>20.8</td>
<td>22.74</td>
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<tr>
<td>SPECIFIC GRAVITY (G/CC)</td>
<td>1.27</td>
<td>1.29</td>
<td>1.31</td>
<td>1.32</td>
<td>1.35</td>
</tr>
</tbody>
</table>

*CONTACT US FOR SAND AND GRAPHITE MIXTURES

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