

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 AND APPLICATION

Place freshwater in a paddle-mixing tank of a commercial grout mixer. Start the grout mixer paddle, and add one 50 lb bag of CETCO GEOTHERMAL GROUT to the freshwater. Mix for approximately 1 minute. If using silica sand, add silica sand at a steady rate (1 to 2 minutes), and continue mixing for another minute. Add CETCO TC BOOSTER to the mixer and stir until the CETCO GEOTHERMAL GROUT and the CETCO TC BOOSTER is homogenous (roughly 1 minute). Pump with a positive displacement piston pump through a tremie pipe at a rate of 5 to 15 gallons per minute. Additional water may be added to decrease viscosity, but this will decrease the expected thermal conductivity values somewhat.

PACKAGING

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



CETCO TC BOOSTER APPLICATION RATIOS

*CONTACT US FOR SAND AND GRAPHITE MIXTURES

TARGET THERMAL CONDUCTIVITY Btu/hr/ft/F	0.8	1.0	1.2
LBS GEOTHERMAL GROUT	50	50	50
LBS TC BOOSTER	12	18	24
GALLONS FRESHWATER	15	15	15
GROUT WEIGHT (LB/GAL)	10.375	10.525	10.670
GROUT VOLUME (GAL)	18.026	18.339	18.652
SPECIFIC GRAVITY (G/CC)	1.245	1.263	1.280

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