



Product Bulletin

Charger

Charger is a medium duty emulsifiable oil type coolant designed for a large variety of operations including cutting, grinding, and turning. Charger combines the excellent cooling properties of water with the lubricity and rust protection of oil in the form of an emulsion which is extremely stable and low foaming. Charger is free of chlorinated or sulfurized extreme pressure additives which may cause disposal problems in some areas.

Features and Benefits

- Excellent emulsion stability for long sump life
- Contains a biocide to minimize odors
- Mild pH reduces risk to workers
- Excellent rust protection of freshly machined parts
- Low foaming tendency and good detergency keep machines clean

Typical Properties

Appearance	Amber/Brown liquid
Bulk Density	7.5 lbs/gal
Solubility	Stable emulsion at concentrations ranging from 2 to 25 % by volume
Flash Point	>350 °F
Viscosity	175-225 SUS @ 100°F
pH (as used @ 5%)	8.8 - 9.0

Application Procedure

Charger is used at concentrations ranging from 3 to 10 % by volume (33:1 to 10:1) depending on the degree of lubrication necessary. Dilutions should be prepared by adding Charger to water (not water to product) with mixing. The concentration of Charger can be determined by refractometer or acid split.

Consult Material Safety Data Sheet for a full description of proper handling procedures.