CITGO CLAIRO® OIL

Date 1/09

DESCRIPTION: CITGO Clairo Oil is a transparent, non-corrosive, dual-purpose cutting oil, equally effective for cutting and for lubrication of various machine tools. It is compounded with a natural ester and a special chlorine EP (extreme pressure) agent for added versatility.

FEATURES:

- Effectively suppresses mist
- Does not corrode ferrous and non-ferrous metals
- Is transparent for closer observation of the metalworking operations
- Permits long tool life and increased production by combining EP, lubricating and wetting properties
- Can be used for cutting and machine tool lubrication to simplify inventories and overcome adverse effects of cross-leakage of cutting and lubricating oil

APPLICATIONS: CITGO Clairo Oil is recommended for machining non-ferrous metals and ferrous alloys having a machinability rating of approximately 50% or higher. It can be used in all automatic screw machines and in similar equipment for:

Drilling	Counter-boring	Turning	Shaving
Reaming	Tapping	Forming	Stamping
Cut Off	Chamfering	Recessing	Thread Rolling

TYPICAL PROPERTIES:

CITGO CLAIRO® OIL	
Grade	**160**
Material Code	639551001
Gravity, ASTM D 4052, °API	22.0
Gravity, Specific, at 60°F, ASTM D 1298	0.92
Density, lb/gal	7.7
Flash Point, ASTM D 92, °F (°C)	315 (154)
Viscosity, ASTM D 445, cSt at 40°C	32
cSt at 100°C	4.9
ASTM D 2161, SUS at 100°F	170
SUS at 210°F	42.6
Color, ASTM D 1500	2.5
Pour Point, ASTM D 97, °F (°C)	-10 (-23)
Four Ball Weld Point, ASTM D 2783, kgf	200
Chlorine, w%	1.3
Copper Corrosion 3 hrs. at 210°F, ASTM D 130	1