

# AMALIE

Better than it has to be®  
Since 1903



## MULTI-USE

# ISO 220

## INDUSTRIAL OIL

### BENEFITS:

- » Multiple Service Oil
- » Excellent Wear Protection
- » Excellent Corrosion Protection
- » Good Anti-Oxidative Performance



MADE IN U.S.A.



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## MULTI-USE INDUSTRIAL OIL

**AMALIE Multi-Use Industrial Oil 220** is formulated as a general workshop oil to bring slide-way, hydraulic, and gear performance in a single lubricant. This product thus allows significant inventory and supply chain cost reduction and minimizes the possibility of lubricant misapplication. **AMALIE Multi-Use Industrial Oil 220** protects ways which often carry machine tools in severe environments. Performance attributes that are needed by a sideway lubricant can vary significantly from application to application, though the following are very common: Anti-wear/extreme pressure performance, anti-rust performance, yellow metal corrosion resistance, and anti-oxidant performance. In addition, the smooth operation of the way can lead to improved accuracy and quality, so strong friction performance as measured by stick-slip resistance is essential. Given the proximity of the way to machine tools and their cutting fluids, a degree of separation from the cutting fluid is also needed. Indeed, emulsion-type cutting fluids will not be damaged by mixing with **AMALIE Multi-Use Industrial Oil 220**, as often this fluid is separated and circulated back to the cutting tool. This product is formulated in various ISO viscosity grades, with varying high and low temperature properties depending on ambient conditions.

### TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

ISO Viscosity Grade.....	220
API Gravity.....	25.0
Flash Point, °C.....	240
Viscosity @100°C, cSt.....	19.5
Viscosity @40°C, cSt.....	220
Viscosity Index.....	100
Pour Point, °C.....	-15

Typical values are listed. Variations not affecting the performance of this fluid may occur during production; however, these variations will not fall outside of set specification parameters.

Please consult AMALIE Technical Services or your local representative for a full listing of applications.

Technical Services: • (800) 368-1264 • techservices@amalie.com

### MULTI-USE INDUSTRIAL OIL

VISCOSITY	PACK SIZE	PART #
ISO 220	55 Gallon Drum	160-70433-05

### PERFORMANCE APPLICATION CHART

SPECIFICATIONS	MULTI-USE INDUSTRIAL OIL ISO 220
AGMA 9005-D94	Gear
Cincinnati Machine	Slideway
DIN 51517	Hydraulic
GM LS-2	√
US STEEL 224	Gear
Rust, ASTM D 665A, B	√
Corrosion, ASTM D 130	√
Timken OK Load, 60 lb min.	√
FZG Load StagePass (12 Pass)	√
Demulsibility ASTM D 2711 (pass)	√
Oxidation, S-200 (pass)	√
Foam Inhibition, ASTM D 892 (pass)	√

The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.

### Health and Safety

Safety Data Sheets (SDS) are available from your sales representative or at AMALIE.com.