



Honilo 971

High Performance Neat Cutting Oil

Description

Castrol Honilo™ 971 is chlorine and heavy-metal free neat cutting oil especially formulated with a unique combination of ester, extreme pressure (EP) additives and base oil to optimize machining performance, enhance surface finish and lower the overall operating costs.

Honilo 971 is suitable for use in central systems as well as individual machines.

Application

Honilo 971 has been designed for severe honing and superfinishing of ferrous and non-ferrous materials using CBN and diamond tools. It can also be used for grinding applications, deep drilling and general machining of ferrous and non ferrous metals.

Honilo 971 is compatible with yellow metals.

| | Cast Iron | Low-medium alloyed steel | High alloyed steel / nickel-chromium alloys | Titanium alloys | Aluminum alloys | Yellow metals |
|---------------------------------|-----------|--------------------------|---|-----------------|-----------------|---------------|
| Honing/ Superfinishing | ▸ | ▸ | ▸ | | ▸ | ▸ |
| Grinding | ▸ | ▸ | ▸ | | ▸ | ▸ |
| Drilling | ▸ | ▸ | ▸ | | ▸ | ▸ |
| Broaching/Gear manufacturing | ▸ | ▸ | | | ▸ | ▸ |
| General machining | ▸ | ▸ | ▸ | | ▸ | ▸ |

Advantages

- Low foam characteristics, even at high pressures and flow rates, lead to increased production rates
- Superior additive technology leads to high honing and grinding efficiencies, increased tool life, improved surface finish and lower overall operating costs
- Low viscosity and excellent wetting characteristics reduce drag out and result in lower product usage
- Good filtering characteristics and high oxidation stability increase product lifetime
- Low odor and light color result in high operator acceptability
- Our chlorine and heavy-metal free formulation improves the environmental profile and reduces disposal costs

Typical Characteristics

| Name | Method | Units | Value |
|--------------------|-------------|--------------------|--------|
| Appearance | Visual | | Yellow |
| Viscosity at 40°C | DIN 51562 | mm ² /s | 8.2 |
| Viscosity at 100°F | ASTM D 446 | [SUS] | 52.6 |
| Density at 15°C | ASTM D 1298 | | 857 |
| Flashpoint COC | ASTM D 92 | °F | > 257 |
| Copper corrosion | ASTM D 130 | | 1b |

Additional Information

| | Ester | Active Sulfur | Inactive Sulfur | Phosphorous | Calcium | Chlorine | Zinc |
|-----------|-------|---------------|-----------------|-------------|---------|----------|------|
| Additives | o | o | o | o | | | |

Storage

To avoid product deterioration, always keep container/drum tightly sealed. Protect from frost and water ingress. Store in a cool, dry place away from direct sunlight. Always store product indoors. For more details, please refer to the product safety data sheet.

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