



Document Number:

**TDS142**

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**SUBJECT: OIL SPECIFICATIONS**

**ENVIRONMENTAL & QUALITY MANUAL**  
*(in accordance with ISO 9001 & 14001)*

## ***VISCOGRIND NF***

### **Description**

VISCOGRIND NF is a synthetic metal working fluid, water- extendible, nitrite free, grinding coolant. The product is fluorescent yellow and easily identified in water solutions.

### **Qualifications**

VISCOGRIND NF contains corrosion inhibitors and other functional additives to impart the necessary performance for this category of product.

Use of this product should be restricted to ferrous metals, high nickel and titanium alloys.

### **Application guide:**

|                    |      |
|--------------------|------|
| Grinding steels    | 60:1 |
| Grinding cast iron | 50:1 |

Dilution range  
1:40 - 1:70 (maximum.)

### **Overview:**

In numerous grinding operations, conventional soluble oils can impair grinding performance rather than assist it. As VISCOGRIND NF is fully synthetic being totally oil free. Wheel glazing and loading due to oil and soap pick up are totally overcome. The concept of being a fully synthetic also shows outstanding stability and performance even in cases of extreme water hardness. Upon dilution, this product yields fully transparent solutions which have a fluorescent - yellow color which is added for identification. The resultant dilutions are mildly alkaline and demonstrate outstanding anti - rust characteristics. Even after extended periods in service, the dilutions remain clear and homogeneous for maximum cooling and workpiece visibility.

As with all production lubricants good housekeeping and system maintenance are important to ensure the satisfactory working life of the product.

The product advantages may be discussed as follows: -

- 1) High levels of rust inhibition.
- 2) Good wheel flushing and visibility.
- 3) Stable clear solutions tolerant to hard waters.
- 4) Free from scums and oil separation.
- 5) Low foaming potential.
- 6) Excellent filterability.

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