

# BONNOC AX

## Long-life, synthetic gear oil for industrial applications

The trend in industrial machinery is toward ever-higher performance and increased automation. Gears are vital machine elements in that they help maintain high productivity. BONNOC AX is formulated with a chemically synthesized hydrocarbon base oil to give it improved performance in industrial applications and the severe high-temperature and high-speed conditions these often entail. Its high viscosity index means it can be used over a wide temperature range, and it has lubricating properties and thermo-oxidative stability superior to that of common mineral-based gear oils.

### ● Special features

BONNOC AX can be used for all types of gears, including spur, bevel, helical, double helical, worm, and rack & pinion gears.

#### 1. Outstanding thermal and oxidative stability

Its synthetic hydrocarbon (polyalphaolefin) base oil gives BONNOC AX superior thermal and oxidative stability compared to common mineral-based industrial gear oils. Carefully selected sulfur-phosphorus additives fight sludge formation and help BONNOC AX provide good performance over longer intervals.

#### 2. Improved gear life

Formulated with outstanding additives, BONNOC AX forms a tenacious oil film that withstands high load and shock forces to prevent gear wear and seizure. And longer gear life contributes to reduced maintenance costs.

#### 3. Prevents rust and corrosion

BONNOC AX features excellent rust- and corrosion-inhibitors that protect gear assemblies and oil circulation systems against rust and corrosion.

#### 4. Good compatibility with seal materials

BONNOC AX exhibits the same good compatibility with seal materials as mineral gear oils.

#### 5. Other performance characteristics

BONNOC AX also has outstanding water-separation and antifoaming characteristics, greatly simplifying oil maintenance.

### ● Types

BONNOC AX is available in 7 viscosity grades (ISO VG 68 through ISO VG 680), so the user can select the right product for the intended usage conditions.

### ● Applications

For lubrication of sealed gears in common industrial machinery used in steel manufacturing, forging, paper manufacturing, construction, mining, chemical manufacturing, and other industries..

### ● Containers

200-liter drums and 20-liter pail cans.

●Typical Properties of BONNOC AX

| ISO Viscosity Grade                           | 68    | 100   | 150   | 220   | 320   | 460   | 680   |
|---|-------|-------|-------|-------|-------|-------|-------|
| Color(ASTM)                                   | L0.5  |
| Density(15°C) g/cm <sup>3</sup>               | 0.851 | 0.853 | 0.854 | 0.855 | 0.855 | 0.856 | 0.857 |
| Kinematic viscosity (40°C) mm <sup>2</sup> /s | 70.6  | 97.6  | 150   | 229   | 318   | 435   | 690   |
| (100°C) mm <sup>2</sup> /s                    | 10.9  | 13.8  | 19.3  | 26.5  | 37.5  | 48.9  | 71.3  |
| Viscosity index                               | 144   | 144   | 146   | 148   | 168   | 173   | 181   |
| Flash Point(COC) °C                           | 264   | 264   | 264   | 268   | 274   | 284   | 280   |
| Pour Point °C                                 | < -45 | < -45 | < -45 | < -45 | -45.0 | -42.5 | -42.5 |
| Acid number mgKOH/g                           | 0.50  | 0.50  | 0.50  | 0.50  | 0.50  | 0.50  | 0.50  |
| Copper strip corrosion (100°C, 3h)            | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| Timken OK Load kg                             | 25    | 25    | 27    | 27    | 27    | 30    | 30    |

Note: The typical properties may be changed without notice. (June 2002)



**Handling  
Precautions**

▼ Follow these precautions when handling this product.

|                                  |  |
|----------------------------------|--|
| <b>Composition :</b>             | Base Oil, Additives  |
| <b>Precautionary pictograms:</b> | Not applicable   |
| <b>Signal word:</b>              | Not applicable   |
| <b>Hazard Statement:</b>         | Not applicable   |
| <b>Precautionary Statements:</b> | <ul style="list-style-type: none"> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> </ul> |
| <b>Prevention</b>                |  |
| <b>Response</b>                  | <ul style="list-style-type: none"> <li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>• IF ON SKIN: Wash with plenty of soap and water.</li> </ul>   |
| <b>Storage</b>                   | <ul style="list-style-type: none"> <li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>• Containers that have been opened must be tightly sealed.</li> </ul>  |
| <b>Disposal</b>                  | <ul style="list-style-type: none"> <li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>   |