

# 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	L0.5	L0.5	L0.5	L0.5	L0.5	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>