



**R.M. Hoffman**  
ISO 9001 Certified. Established 1959.

Dear Colleague,

Thank you for visiting our website and downloading a product catalog from the R.M. Hoffman Company. We hope this information will be useful to you in solving the application you are working on.

The R.M. Hoffman Company is located in the Silicon Valley and has been in business for over 50 years. We are engineers who **specialize in mechanical components** such as gearboxes, flex couplings, rotary unions, and torque releases, as well as hardware items such as actuators, brakes, clutches, and electrical slip rings. We sell our solutions worldwide to semiconductor, medical, packaging, robotic machine and other builders.

Quite often we find that our customers want a customized version of standard product offerings and we take pride in our ability to help **match our customer's engineering requirements to the exact product needed**. We work closely with our customers to **provide modified products or an assembly of products**.

Please give us a call and let us know how we can assist you. We look forward to talking to you soon.

Thank you.

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# 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 synthetic gear oil 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**

Type			68	100	150	220	320	460	680
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
Acid number		mg KOH/g	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Pour point		°C	< -45	< -45	< -45	< -45	< -45	< -45	< -45
Corrosion of copper plate		(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 the following precautions when handling this product.

- Read this product's Material Safety Data Sheet before using the product.
- Obey all applicable laws and regulations concerning the handling and disposal of this product, particularly laws and regulations related to fire safety, the treatment and disposal of waste and sewage, the prevention of water and ocean pollution, and workplace safety and hygiene.

Please request the Material Safety Date Sheet where you purchased this product.

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