

BONNOC AX

Long-life, synthetic gear oil for industrial applications

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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 ³	0.851	0.853	0.854	0.855	0.855	0.856	0.857	
Kinematic viscosity	(40°C)	mm ² /s	70.6	97.6	150	229	318	435	690
	(100°C)	mm ² /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.

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