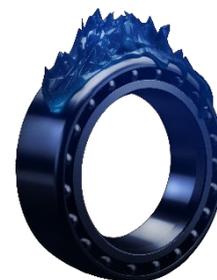


TECHNICAL PRODUCT SHEET

# INNOVA™ COMPLEX/WTR NLGI 1.5, 2



## DESCRIPTION

INNOVA™ COMPLEX/WTR is calcium sulphonate complex thickened lubricating grease based on mineral oils. It exhibits excellent load carrying properties inherently provided by the technology built in their soap structure. Its functional soap makes INNOVA™ COMPLEX/WTR suitable for heavily loaded applications at elevated temperatures and in wet and corrosive environments. It demonstrates superb mechanical stability, good corrosion protection and excellent water resistance.

## APPLICATIONS

INNOVA™ COMPLEX/WTR is a modern high-performance product suitable for industrial (steel mills, paper calenders, cement plants, overhead cranes, conveyors etc.) as well as marine (wire ropes, open gears & windlasses) and off-road applications. The extreme load carrying capacity and the excellent water resistance make these products a perfect choice for heavily loaded applications in the presence of excess water and/or elevated working temperature. INNOVA™ COMPLEX/WTR 1.5 is ideal for central lubricating systems in the above heavy-duty applications.

## SPECIFICATIONS

NLGI 1.5	DIN51825 KP1/2N-20	ISO 6743/9 L-X-BDIB1/2
NLGI 2	DIN51825 KP2P-20	ISO 6743/9 L-X-BEIB2

## PROPERTIES

INNOVA™ COMPLEX/WTR offers excellent load-carrying capacity combined with outstanding mechanical and thermal stability. It provides superior corrosion protection, water resistance, and excellent wetting properties, ensuring a stable and rationalized lubricating film thickness for reliable performance in demanding applications.

## BENEFITS

INNOVA™ COMPLEX/WTR offers very good compatibility with lithium and lithium complex soap-based greases, as well as excellent compatibility with most seals commonly used in lubricated applications. It ensures outstanding pumpability in centralized lubrication systems and delivers exceptional mechanical resistance with minimal oil bleeding in automatic lubricators, guaranteeing reliable and efficient performance.



## TECHNICAL PRODUCT SHEET

### PHYSICAL-CHEMICAL CHARACTERISTICS

INNOVA™ COMPLEX/WTR	METHOD	1.5	2
<b>NLGI Grade</b>		<b>1.5</b>	<b>2</b>
Color/Appearance	Visual	Brown	Brown
Texture	Visual	Smooth	Smooth
Thickener type		Calcium sulphonate complex	Calcium sulphonate complex
Base Oil		Blend of mineral oils	Blend of mineral oils
Base oil viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	220	460
Dropping point, °C	ASTM D2265	280	280
Worked penetration, 10 <sup>-1</sup> mm @25 °C			
- 60 strokes	ASTM D 217	285-315	265-295
- 100,000 strokes		+5%	+5%
EP properties weld point, kgf	ASTM D 2596	400	400
Wear preventive characteristics			
- Scar diameter, mm	ASTM D 2266	0.50	0.50
Oxidation stability test, psi drop/100hrs	ASTM D 942	3	3
Antirust properties	ASTM D 1743	Pass	pass
Copper strip corrosion	ASTM D 4048	1b	1b
Operating temperatures, °C		-20/+150 (+180 short peaks)	-20/+160 (+180 short peaks)

The above mentioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

