



ROBOTIK



ANGLOMOIL ROBOTIK SETS NEW STANDARDS !



Anglomoil Robotik combines the strength of Calcium Sulfonate with the enhanced protection of PTFE:

- Calcium Sulfonate platelets can bond horizontally to metal surfaces, forming a fish scale-like coating. This provides ample shear planes, which provide load carrying protection
- PTFE works well in a wide range of seal materials and reduces mechanical noise in any applications
- Quieter operation of gearboxes
- Superior corrosion protection
- Superior anti-wear and extreme pressure properties
- High dropping point

ANGLOMOIL ROBOTIK PROVIDES OUTSTANDING WEAR REDUCTION, A SMOOTHER AND QUIETER ENVIRONMENT.

Product Information **ANGLOMOIL ROBOTIK**

ANGLOMOIL Robotik is formulated for the lubrication of gears in industrial robots. Anglomoil Robotik combines the strength of Calcium Sulfonate with the enhanced protection of PTFE. PTFE works well in a wide range of seal materials and reduces mechanical noise in any applications.

Calcium Sulfonates have long been used effectively in automotive and marine engine oils to neutralize strong acids, disperse harmful deposits and to provide detergency and rust protection. Its use in greases is a rapidly expanding development.

In most greases, the thickener is responsible for carrying the oil to the point of lubrication. The oil is then squeezed out under the pressure of the contact and provides the necessary lubrication. Calcium Sulfonate greases behave differently to standard greases. Calcium Sulfonate is broken down and provides an increase in the lubricating film thickness, greater than that of the base oil alone. Calcium Sulfonate platelets can bond horizontally to metal surfaces, forming a fish scale-like coating. This provides ample shear planes, which provide load carrying protection.

PTFE belongs to the fluoropolymer family. PTFEs' fluorine atoms are larger than its carbon atoms and spiral around the carbon back bone, preventing other atoms penetrating the shield bringing stability. As fluorine is chemically inert, other chemicals cannot attack the carbon backbone and weaken the molecular structure. PTFE has:

- Very low coefficient of friction
- Powerful bonds which provide resistance to fracture and high thermal stability, effective at extremes of high and low temperatures
- High di-electric strength

TYPICAL INSPECTION TESTS

NLGI Grade	00
Mineral Base Oil 52%, ASTM D445, cSt @ 40°C	20.0
Synthetic Base Oil 48%, ASTM D445, cSt @ 40°C	8.0
Dropping Point, °C, ASTM D.2265	280
Mechanical Stability ASTM D.217	
Worked 100,000 strokes, % change	-1
Timken OK Load, ASTM D 2509, LB	24
4-Ball EP, ASTM D2596	
[W], kg/f	62
Weld Point, kg	500
Rust Test, ASTM D1743, rolling	Pass
Bomb Oxidation, ASTM D942, psi drop after 1000 hrs	6
Water Washout, ASTM D1264, 80°C, % loss	0.5
Oil Separation, ASTM D1742, mass %	0.1

Values shown here are typical and may vary



ANGLOMOIL MANUFACTURING DIVISION