

## NANO GREASES

### General Description

Multipurpose greases based on lithium soap, excellent base oil and nano additive of tungsten disulfide (WS<sub>2</sub>). These are all high quality products resistant to high temperatures stress, wear and abrasion. Suitable for general lubrication and working temperatures up to 135 °C. widely used in vehicle including passenger cars, trucks, buses, construction equipment, farm machinery etc... **NANO GREASE ULTRA EP-2** is based of Lithium Complex and nano additive of tungsten disulfide for very load applications and very high temperatures.(up to 160 °C).

### Description of the nano particules

The conventional solid additives are metal sulfides platelets. **Our innovations:** a significantly better solid lubricant which is made of very small Nanospheres (nano meter) those are stronger and more stable than platelets particles. These inorganic nanoparticles are expected to exhibit lubricating properties and to be applicable at higher and more sever loading stresses than most currently used lubricants

### Properties :

|                               | <b>ROCK BREAKERS<br/>NANO 1/0 *</b> | <b>NANO<br/>GREASE EP-<br/>2</b> | <b>NANO<br/>GREASE<br/>SEP-2</b> | <b>NANO<br/>GREASE<br/>ULTRA EP-2</b> |
|-------------------------------|-------------------------------------|----------------------------------|----------------------------------|---------------------------------------|
| SAE Viscosity of base oil     | 30                                  | 30                               | 30                               | 30                                    |
| color                         | black                               | black                            | black                            | black                                 |
| Emulsion corrosion, steel     | pass                                | pass                             | pass                             | pass                                  |
| Penetration grade NLGI        | 1/0                                 | 2                                | 2                                | 2                                     |
| Worked penetration(60 stokes) | 320-345                             | 265-295                          | 265-295                          | 265-295                               |
| Drop point °C                 | 210                                 | 185                              | 190                              | 290                                   |
| thickener                     | Lithium soap                        | Lithium soap                     | Lithium soap                     | Lithium complex soap                  |
| Working temperature /Max / °C | 140                                 | 130                              | 135                              | 160                                   |
| Viscosity index of base oil   | 90                                  | 90                               | 90                               | 90                                    |
| Dry lubricant                 | Nano ws2 +graphite                  | Nano ws2                         | Nano ws2                         | Nano ws2                              |

\* Grease **ROCK BREAKERS NANO 1-0** especially desined for central lubrication systems , industrial transmissions ,rock drilling hammers and other heavy equipment which needs such grease.