



# **SiNDA**

## **LUBRICATION**

**SPECIALITY GREASES  
FOR ALL INDUSTRIES**



### **SiNDA Oil Trading L.L.C**

SiNDA is an independent brand engaged in the production and supply of automotive engine oils, specialized industrial lubricants, polymers, additives, greases, and bitumen.

At the international level, SiNDA collaborates with the Italian Petrol Company (IPC). All European orders of SiNDA are managed and fulfilled by IPC in Italy, ensuring premium quality and compliance with European standards.

For economic-market orders, production is carried out in Dubai through approved UAE-based factories under SiNDA's supervision, enabling competitive pricing and fast response to market demands.

In the bitumen sector, our production is based in Iraq, managed by SiNDA's technical and engineering team in coordination with our European experts, and developed according to the latest global standards. From there, all operations are directed through Dubai for management, handling, and re-export to international markets.

At SiNDA Oil Trading L.L.C, we combine an independent brand identity with strategic international partnerships, delivering reliable, flexible, and world-class solutions to our customers worldwide.

# LUBRICATION



Bearing Greases

**SN-220 CS EP**

High Performance, Extreme Pressure, Water Resistant



**SN-220 CS-EP** is based on mineral oil and latest Calcium Sulfonate Complex thickener technology. **SN-220 CS-EP** is recommended for most types of industrial applications including heavy-duty applications where high unit pressures or shock loads, wet environments and high temperatures are present.

| Specifications                 | Methods     | SN-220 CS-EP1             | SN-220 CS-EP2             |
|--------------------------------|-------------|---------------------------|---------------------------|
| Base oil type                  |             | Mineral oil               | Mineral oil               |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 220                       | 220                       |
| Thickener type                 |             | Calcium Sulfonate Complex | Calcium Sulfonate Complex |
| Dropping point °C              | ASTM D566   | >300                      | >300                      |
| NLGI Consistency               |             | <b>1</b>                  | <b>2</b>                  |
| Worked penetration, mm/10      | ASTM D217   | 310 – 340                 | 265 – 295                 |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=250                     | >=400                     |
| Water Washout , % Loss         | ASTM D 1264 | -                         | ≤ 1.5 %                   |
| Operating Temperature Range    |             | -20 °C to + 200 °C        | -20 °C to + 200 °C        |
| Colour                         |             | Light Brown/Blue          | Light Brown/Blue          |

**SN-460 CS EP**

High Performance, Extreme Pressure, Water Resistant



**SN-460 CS** is based on high viscosity mineral oil and the latest **Calcium Sulfonate Complex** thickener technology. It is suitable for applications subjected to high loads, vibrations, wet environments and high temperatures. This Grease is an excellent choice for steel mill and marine applications.

| Specifications                 | Methods     | SN-460 CS EP 1.5          | SN - 460 CS EP2           |
|--------------------------------|-------------|---------------------------|---------------------------|
| Base oil type                  |             | Mineral oil               | Mineral oil               |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 460                       | 460                       |
| Thickener type                 |             | Calcium Sulfonate Complex | Calcium Sulfonate Complex |
| Dropping point °C              | ASTM D566   | >300                      | >300                      |
| NLGI Consistency               |             | <b>1.5</b>                | <b>2</b>                  |
| Worked penetration, mm/10      | ASTM D217   | 290 – 315                 | 265 – 295                 |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=400                     | >=400                     |
| Water Washout , % Loss         | ASTM D 1264 | -                         | ≤ 1.5 %                   |
| Operating Temperature Range    |             | -20 °C to + 200 °C        | -20 °C to + 200 °C        |
| Colour                         |             | Light Brown               | Light Brown               |

## SN-LCX EP

High Performance, High Temperature, Water Resistant



**SN-LCX EP** is a mineral oil based Lithium Calcium Complex grease. This grease is recommended for general industrial and automotive applications, when loads or temperatures exceed the range of lithium greases.

| Specifications                 | Methods     | SN-LCX EP2              | SN-LCX EP3              |
|--------------------------------|-------------|-------------------------|-------------------------|
| Base oil type                  |             | Mineral oil             | Mineral oil             |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 220                     | 220                     |
| Thickener type                 |             | Lithium Calcium Complex | Lithium Calcium Complex |
| Dropping point °C              | ASTM D566   | >300                    | >300                    |
| NLGI Consistency               |             | <b>2</b>                | <b>3</b>                |
| Worked penetration, mm/10      | ASTM D217   | 265 – 295               | 220 – 250               |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=250                   | >=250                   |
| Water Washout , % Loss         | ASTM D 1264 | 0.5 %                   | 0.5 %                   |
| Operating Temperature Range    |             | -20 °C to + 200 °C      | -20 °C to + 200 °C      |
| Colour                         |             | Light Brown/Red         | Light Brown/Red         |

## SN-100 MP

High Performance



**SN-100 MP** is a mineral oil based Lithium grease fortified with, **anti-wear**, **anti-oxidation** and **anti-corrosion** additives. This high performance grease is suitable for wide range of industrial and automotive applications.

| Specifications                 | Methods    | SN-100 MP2         | SN - 100 MP3       |
|--------------------------------|------------|--------------------|--------------------|
| Base oil type                  |            | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445 | 100                | 100                |
| Thickener type                 |            | Lithium            | Lithium            |
| Dropping point °C              | ASTM D566  | >185               | >180               |
| NLGI Consistency               |            | <b>2</b>           | <b>3</b>           |
| Worked penetration, mm/10      | ASTM D217  | 265 – 295          | 220 – 250          |
| Operating Temperature Range    |            | -20 °C to + 130 °C | -20 °C to + 130 °C |
| Colour                         |            | Light Beige        | Light Beige        |

## SN-Lithium EP

High Performance, Extreme Pressure



**SN-Lithium EP** is a mineral oil based Lithium grease fortified with Extreme pressure (**EP**), anti-wear, anti-oxidation and anti-corrosion additives. This grease is recommended for most types of industrial applications including heavy-duty applications where high unit pressures or shock loads are present.

| Specifications                 | Methods     | SN-Lithium EP2     | SN-Lithium EP3     |
|--------------------------------|-------------|--------------------|--------------------|
| Base oil type                  |             | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 220                | 220                |
| Thickener type                 |             | Lithium            | Lithium            |
| Dropping point °C              | ASTM D566   | 190                | 190                |
| NLGI Consistency               |             | <b>2</b>           | <b>3</b>           |
| Worked penetration, mm/10      | ASTM D217   | 265 – 295          | 220 – 250          |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=250              | >=250              |
| Operating Temperature Range    |             | -20 °C to + 130 °C | -20 °C to + 130 °C |
| Colour                         |             | Light Beige        | Light Beige        |

## SN-Calcium (Anhydrous)

High Performance, Water Resistant

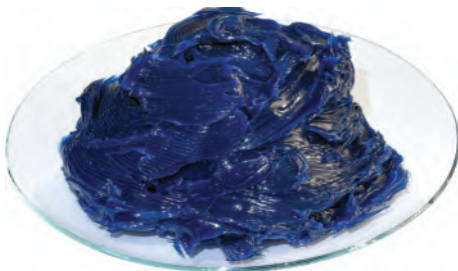


**SN-Calcium** is a mineral oil based anhydrous calcium grease. Especially suitable for equipment mechanisms working outdoors and/ or in damp environments, such as cars, public works machinery, agricultural machinery, etc. It is recommended for greasing chassis and self-chassis, industrial and vehicle water pumps, crane guides and carwashes.

| Specifications                 | Methods    | SN-Calcium 2       | SN- Calcium 3      |
|--------------------------------|------------|--------------------|--------------------|
| Base oil type                  |            | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445 | 100                | 100                |
| Thickener type                 |            | Anhydrous Calcium  | Anhydrous Calcium  |
| Dropping point °C              | ASTM D566  | 130-140            | 130-140            |
| NLGI Consistency               |            | <b>2</b>           | <b>3</b>           |
| Worked penetration, mm/10      | ASTM D217  | 265 – 295          | 220 – 250          |
| Operating Temperature Range    |            | -20 °C to + 100 °C | -20 °C to + 100 °C |
| Colour                         |            | Brown              | Brown              |

## SN-220 LX

High Performance, Extreme Pressure, High Temperature



**SN-220 LX** is multipurpose greases based on mineral oil and Lithium Complex thickener fortified with Extreme Pressure (EP), Anti-wear, Anti-Oxidation and Anti-Corrosion additives. **SN-220 LX** is suitable for bearings operating at high temperature under load and vibrations.

| Specifications                 | Methods     | SN-220 LX 2        | SN-220 LX 3        |
|--------------------------------|-------------|--------------------|--------------------|
| Base oil type                  |             | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 220                | 220                |
| Thickener type                 |             | Lithium Complex    | Lithium Complex    |
| Dropping point °C              | ASTM D566   | >250               | >250               |
| NLGI Consistency               |             | <b>2</b>           | <b>3</b>           |
| Worked penetration, mm/10      | ASTM D217   | 265 – 295          | 220 – 250          |
| Four Ball Weld Load, Kgf       | ASTM D 2596 | >=250              | >=250              |
| Operating Temperature Range    |             | -20 °C to + 150 °C | -20 °C to + 150 °C |
| Colour                         |             | Blue               | Blue               |

## SN-500 B

High Temperature, Extreme Pressure



**SN-500 B** is formulated from a special blend of high viscosity solvent refined paraffin base oil thickened with bentonite clay. This non-soap grease is recommended for extremely high temperature applications. Unlike normal greases, Benton greases retain their consistency under increasing temperatures.

| Specifications                 | Methods     | SN-500 B1          | SN - 500 B2        |
|--------------------------------|-------------|--------------------|--------------------|
| Base oil type                  |             | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 500                | 500                |
| Thickener type                 |             | Inorganic          | Inorganic          |
| Dropping point °C              | ASTM D566   | None               | None               |
| NLGI Consistency               |             | <b>1</b>           | <b>2</b>           |
| Worked penetration, mm/10      | ASTM D217   | 310 – 340          | 265 – 295          |
| Four Ball Weld Load, Kgf       | ASTM D 2596 | >=250              | >=250              |
| Operating Temperature Range    |             | -20 °C to + 200 °C | -20 °C to + 200 °C |
| Colour                         |             | Light Brown        | Light Brown        |

## SN-100 PU

High Performance, Long Life



**SN-100 PU** is a high performance grease based on modern Polyurea thickener and mineral oil, fortified with high performance additives. **SN-100 PU** is specially formulated for electric motor bearing lubrication.

| Specifications                 | Methods    | SN-100 PU2         | SN-100 PU 3        |
|--------------------------------|------------|--------------------|--------------------|
| Base oil type                  |            | Mineral oil        | Mineral oil        |
| Base oil viscosity @ 40 °C cSt | ASTM D 445 | 100                | 100                |
| Thickener type                 |            | Polyurea           | Polyurea           |
| Dropping point °C              | ASTM D566  | >250               | >250               |
| NLGI Consistency               |            | <b>2</b>           | <b>3</b>           |
| Worked penetration, mm/10      | ASTM D217  | 265 – 295          | 220 – 250          |
| Operating Temperature Range    |            | -20 °C to + 150 °C | -20 °C to + 150 °C |
| Colour                         |            | Light Brown        | Light Brown        |

## SN-460 SPU

Synthetic, High Performance, High Temperature



**SN-460 SPU** is a high performance, high-temperature, long life grease for heavy-duty industrial applications. It uses fully synthetic base stocks and the latest technology Polyurea thickener. It contains the latest additives to offer excellent high temperature oxidation performance and other additives to enhance its anti-oxidation, anti-wear and anti-corrosion properties. **SN-460 SPU** is especially suitable for slow moving, heavy-duty bearings operating at high temperatures and under severe loads.

| Specifications                 | Methods     | SN-460 SPU 1.5     | SN - 460 SPU 2     |
|--------------------------------|-------------|--------------------|--------------------|
| Base oil type                  |             | Synthetic Oil      | Synthetic Oil      |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 460                | 460                |
| Thickener type                 |             | Polyurea           | Polyurea           |
| Dropping point °C              | ASTM D566   | >300               | >300               |
| NLGI Consistency               |             | <b>1.5</b>         | <b>2</b>           |
| Worked penetration, mm/10      | ASTM D217   | 290 – 315          | 265 – 295          |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=250              | >=250              |
| Operating Temperature Range    |             | -20 °C to + 200 °C | -20 °C to + 200 °C |
| Colour                         |             | Light Brown        | Light Brown        |

# **SiNDA**

## **LUBRICATION**



**Open Gear & Wire Rope Lubricants**

## SN-301

Sprayable Open Gear Grease with Graphite



**SN-301** is operating lubricant for open gear drives. This Grease is manufactured based on high viscosity mineral oil and Calcium Sulfonate Complex thickener fortified with high performance additives and colloidal graphite. Comparing to conventional Aluminium Complex open gear greases, SN-301 provides much higher thermal and oxidation stability, lower wear rate, higher film strength and excellent corrosion protection. Despite its adhesiveness, SN-301 is easily sprayable. SN-301 is free of asphalt, heavy metals and solvents.

| Specifications                 | Methods     | SN-301-1100               | SN -301-2500              |
|--------------------------------|-------------|---------------------------|---------------------------|
| Base oil type                  |             | Mineral oil               | Mineral oil               |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 1100                      | 2500                      |
| Thickener type                 |             | Calcium Sulfonate Complex | Calcium Sulfonate Complex |
| Dropping point °C              | ASTM D566   | >250                      | >250                      |
| NLGI Consistency               |             | <b>0-00</b>               | <b>0-00</b>               |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >800                      | >800                      |
| 4 Ball Wear Test, mm           | ASTM 2266   | 0.45                      | 0.45                      |
| FZG Scuffing Load Stage        | DIN 51354   | >12                       | >12                       |
| Operating Temperature Range    |             | -10 °C to + 180 °C        | +5 °C to + 180 °C         |
| Colour                         |             | Black                     | Black                     |

## SN-302

Wire Rope Grease with Graphite



**SN-302** is a wire rope grease based on high viscosity mineral oil and calcium sulfonate complex thickener, fortified with high performance additives and colloidal **Graphite**. This grease has excellent adhesiveness and it is extremely water resistant. SN-302 effectively protects the metal surface from wear and corrosion even in wet environments. SN-302 is available in different consistencies depending on mode of application. This grease is free from any solvent, asphalt and heavy metals.

| Specifications                 | Methods     | SN-302-00                 | SN - 302-2                |
|--------------------------------|-------------|---------------------------|---------------------------|
| Base oil type                  |             | Mineral oil               | Mineral oil               |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 460                       | 460                       |
| Thickener type                 |             | Calcium Sulfonate Complex | Calcium Sulfonate Complex |
| Dropping point °C              | ASTM D566   | >300                      | >300                      |
| NLGI Consistency               |             | <b>00</b>                 | <b>2</b>                  |
| Worked penetration, mm/10      | ASTM D217   | 400 – 430                 | 265 – 295                 |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >=400                     | >=400                     |
| Operating Temperature Range    |             | -20 °C to + 150 °C        | -20 °C to + 200 °C        |
| Colour                         |             | Black                     | Black                     |

**SN-303**

## Biodegradable Wire Rope Grease



**SN-303** is a biodegradable wire rope grease based on high viscosity vegetable oil and Bentonite clay thickener, fortified with high performance additives and solid lubricants. This grease has excellent adhesiveness and it is extremely water resistant. SN-303 effectively protects the metal surface from wear and corrosion even in wet environments. SN-303 is available in different consistencies depending on mode of application. This grease is free from any solvent, asphalt and heavy metals.

| Specifications                 | Methods     | SN-303-00          | SN-303-2          |
|--------------------------------|-------------|--------------------|-------------------|
| Base oil type                  |             | Biodegradable oil  | Biodegradable oil |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 170                | 170               |
| Thickener type                 |             | Inorganic          | Inorganic         |
| Dropping point °C              | ASTM D566   | None               | None              |
| NLGI Consistency               |             | <b>0-00</b>        | <b>2</b>          |
| Four Ball Weld Load, Kg        | ASTM D 2596 | 250                | 250               |
| Operating Temperature Range    |             | -10 °C to + 130 °C | +5 °C to + 150 °C |
| Colour                         |             | Brown              | Brown             |

**SN-305**

## Open Gear Fluid Lubricant



**SN-305** is operating lubricant for open gear drives. This Lubricant is manufactured based on Extremely high viscosity semi-synthetic oil fortified with high performance additives. This lubricant has very high load carrying capacity and it effectively protects the gears from wear, pitting and scuffing. SN-305 provides excellent adhesion and extends relubrication intervals. SN-305 is free of asphalt, heavy metals, solvents and solid lubricants.

| Specifications              | Methods     | SN-305-550       | SN - 305-1000    |
|-----------------------------|-------------|------------------|------------------|
| Base oil type               |             | Semi-Synthetic   | Semi-Synthetic   |
| Viscosity @ 100 °C, cSt     | ASTM D 445  | ≈550             | ≈1000            |
| Viscosity @ 40 °C, cSt      | ASTM D 445  | ≈17000           | ≈25000           |
| Four Ball Weld Load, Kg     | ASTM D 2596 | >800             | >800             |
| 4 Ball Wear Test, mm        | ASTM D 2266 | < 0.55           | < 0.55           |
| FZG Scuffing Load Stage     | DIN 51354   | >12              | >12              |
| Flash Point, °C             | ISO 2592    | >= 200           | >= 200           |
| Operating Temperature Range |             | 0 °C to + 120 °C | 0 °C to + 120 °C |
| Colour                      |             | Clear Brown      | Clear Brown      |

**SN-307**

## Jacking Grease



**SN-307** is a biodegradable grease based on vegetable oil and Bentonite clay thickener, fortified with high performance additives and solid lubricants. SN-307 has good adhesiveness and it is extremely water resistant. This grease provides excellent wear and corrosion protection even in wet environments. SN-307 is free of asphalt, heavy metals and solvents.

| Specifications                   | Methods     | SN-307             |
|----------------------------------|-------------|--------------------|
| Base oil type                    |             | Biodegradable oil  |
| Thickener type                   |             | Inorganic          |
| Dropping point °C                | ASTM D566   | >250               |
| NLGI Consistency                 |             | <b>1-2</b>         |
| Worked Penetration, 60 Dh, mm/10 | ASTM D217   | 275 – 300          |
| Four Ball Weld Load, Kg          | ASTM D 2596 | 800                |
| FZG Scuffing Load Stage          | DIN 51354   | >12                |
| Operating Temperature Range      |             | -10 °C to + 180 °C |
| Colour                           |             | Cream              |

**SN-310**

## Sprayable Open Gear Grease with Graphite



**SN-310** is operating lubricant for open gear drives. This Grease is manufactured based on high viscosity mineral oil and Aluminium Complex thickener fortified with high performance additives and colloidal graphite. Despite its adhesiveness, SN-310 is easily sprayable. SN-310 is free of asphalt, heavy metals and solvents.

| Specifications                 | Methods     | SN-310-1100        | SN-310-2500       |
|--------------------------------|-------------|--------------------|-------------------|
| Base oil type                  |             | Mineral oil        | Mineral oil       |
| Base oil viscosity @ 40 °C cSt | ASTM D 445  | 1100               | 2500              |
| Thickener type                 |             | Aluminium Complex  | Aluminium Complex |
| Dropping point °C              | ASTM D566   | >180               | >180              |
| NLGI Consistency               |             | <b>0-00</b>        | <b>0-00</b>       |
| Four Ball Weld Load, Kg        | ASTM D 2596 | >800               | >800              |
| 4 Ball Wear Test, mm           | ASTM 2266   | 0.50               | 0.50              |
| FZG Scuffing Load Stage        | DIN 51354   | >12                | >12               |
| Operating Temperature Range    |             | -10 °C to + 180 °C | +5 °C to + 180 °C |
| Colour                         |             | Black              | Black             |

# **SiNDA** LUBRICATION



Thread Lubricant

## SN-402

### Copper & Graphite Anti-Seize Compound



**SN-402** is a general purpose anti-seize compound and assembly paste, containing engineered microscopic copper and graphite flakes in a mineral base fluid with a non-melting thickener. The compound fills surface irregularities and prevents both leaks and the intrusion of contaminants. The major advantage of this copper compound is that galvanic corrosion is prevented when dissimilar metals are joined. Use on brake assemblies, all studs, nuts, bolts and other threaded connections, including exhaust systems. Assembly is made easier and threaded couplings can be secured uniformly with optimum torque. After long periods of service in quite arduous conditions of heat, pressure and vibration, components can be readily broken out without damage or distortion.

| Specifications              | Methods   | SN-402             |
|-----------------------------|-----------|--------------------|
| Base oil type               |           | Mineral oil        |
| Thickener type              |           | Complex Thickener  |
| Dropping point °C           | ASTM D566 | >300               |
| NLGI Consistency            |           | <b>1</b>           |
| Worked penetration, mm/10   | ASTM D217 | 310 – 340          |
| Operating Temperature Range |           | -25 °C to + 982 °C |
| Colour                      |           | Copper             |

## SN-403

### Copper Drill Collar & Tool Joint Compound



**SN-403** is a double duty drill collar and tool joint compound composed of mineral oil and Calcium Sulfonate complex thickener with micronized **copper** and **graphite** flakes. This compound also contains **extreme pressure, anti-wear, anti-corrosion** and **anti-oxidation** additives. The extreme pressure additives and specially selected solid lubricants can effectively provide protection against seizure and galling. SN-403 has good adhesiveness and it is extremely water resistant. Calcium sulfonate complex thickener provides excellent corrosion protection and it is resistant to invert or high-pH muds and provides better pipe storage properties. SN-403 is **lead and zinc free** and it is not considered as marine pollutant.

| Specifications              | Methods     | SN-403             |
|-----------------------------|-------------|--------------------|
| Base oil type               |             | Mineral oil        |
| Thickener type              |             | Complex Thickener  |
| Dropping point °C           | ASTM D566   | >300               |
| NLGI Consistency            |             | <b>1</b>           |
| Worked penetration, mm/10   | ASTM D217   | 310 – 340          |
| 4 Ball Weld Load            | ASTM D 2596 | <b>≥ 620</b>       |
| Operating Temperature Range |             | -20 °C to + 200 °C |
| Colour                      |             | Copper             |

## SN-404

### High Pressure Metal Free Thread Compound



**SN-404** is a metal free high pressure thread compound composed of mineral oil and **calcium sulfonate complex** thickener. This compound also contains **extreme pressure, anti-wear, anti-corrosion, anti-oxidant** and high amounts of proven solid lubricants. SN-404 provides maximum thread engagement ensuring good leak resistance. The extreme pressure additives and specially selected solid lubricants can effectively provide protection against seizure and galling. SN-404 has good adhesiveness and it is extremely water resistant. Calcium sulfonate complex thickener provides excellent corrosion protection and it is resistant to invert or high-pH muds and provides better pipe storage properties.

| Specifications              | Methods     | SN-404             |
|-----------------------------|-------------|--------------------|
| Base oil type               |             | Mineral oil        |
| Thickener type              |             | Complex Thickener  |
| Dropping point °C           | ASTM D566   | >300               |
| NLGI Consistency            |             | <b>1</b>           |
| Worked penetration, mm/10   | ASTM D217   | 310 – 340          |
| 4 Ball Weld Load            | ASTM D 2596 | 800                |
| Operating Temperature Range |             | -20 °C to + 200 °C |
| Colour                      |             | Black              |

## SN-406

### Zinc Based Drill Collar & Tool Joint Compound



**SN-406** is a double duty drill collar and tool joint compound composed of mineral oil and **calcium sulfonate complex** thickener. This compound contains **high performance additives, 50% metallic Zinc** and other proven solid lubricants meeting the metallic zinc requirements described in API Bulletin 5A2. The extreme pressure additives and specially selected solid lubricants can effectively provide protection against seizure and galling. SN-406 has good adhesiveness and it is extremely water resistant. Calcium sulfonate complex thickener provides excellent corrosion protection and it is resistant to invert or high-pH muds and provides better pipe storage properties.

| Specifications              | Methods     | SN-406             |
|-----------------------------|-------------|--------------------|
| Base oil type               |             | Mineral oil        |
| Thickener type              |             | Complex Thickener  |
| Dropping point °C           | ASTM D566   | >300               |
| NLGI Consistency            |             | <b>1-2</b>         |
| Worked penetration, mm/10   | ASTM D217   | 275 – 305          |
| 4 Ball Weld Load            | ASTM D 2596 | <b>≥ 500</b>       |
| Operating Temperature Range |             | -20 °C to + 200 °C |
| Colour                      |             | Grey               |

**SN-408**

High Pressure Thread Compound – API MODIFIED



**SN-408** is high pressure thread compound composed of mineral oil and calcium sulfonate complex thickener. This compound also contains extreme pressure, anti-wear, anti-corrosion, anti-oxidant and high amounts of proven solid lubricants. SN-408 provides maximum thread engagement ensuring good leak resistance. The extreme pressure additives and specially selected solid lubricants can effectively provide protection against seizure and galling. SN-408 has good adhesiveness and it is extremely water resistant. Calcium sulfonate complex thickener provides excellent corrosion protection and it is resistant to invert or high-pH muds and provides better pipe storage properties.

| Specifications              | Methods     | SN-408             |
|-----------------------------|-------------|--------------------|
| Base oil type               |             | Mineral oil        |
| Thickener type              |             | Complex Thickener  |
| Dropping point °C           | ASTM D566   | >300               |
| NLGI Consistency            |             | <b>1</b>           |
| Worked penetration, mm/10   | ASTM D217   | 310 – 340          |
| 4 Ball Weld Load            | ASTM D 2596 | 800                |
| Operating Temperature Range |             | -20 °C to + 200 °C |
| Colour                      |             | Black              |

**SN-409**

Metal Free Heavy Duty Anti-Seize Compound



**SN-409** is a non-metallic anti-seize compound and assembly paste containing Calcium Fluoride, Graphite and a complex thickener technology fortified with high performance additives. The compound fills surface irregularities and prevents both leaks and the intrusion of contaminants. The major advantage of metal free compound is that galvanic corrosion is prevented when dissimilar metals are joined. Assembly is made easier and threaded couplings can be secured uniformly with optimum torque. After long periods of service in quite arduous conditions of heat, pressure and vibration, components can be readily broken out without damage or distortion.

| Specifications              | Methods   | SN-409              |
|-----------------------------|-----------|---------------------|
| Base oil type               |           | Mineral oil         |
| Thickener type              |           | Complex Thickener   |
| Dropping point °C           | ASTM D566 | >250                |
| NLGI Consistency            |           | <b>1</b>            |
| Worked penetration, mm/10   | ASTM D217 | 310 – 340           |
| Operating Temperature Range |           | -20 °C to + 1315 °C |
| Colour                      |           | Black               |

# **SiNDA**

## **LUBRICATION**



**Food Grade Greases**

**SN-701**

## Food Grade Calcium Grease



**SN-701** is a multipurpose, food grade Calcium grease based on white mineral oil. This Grease is fortified with food grade anti-wear, anti-corrosion and anti-oxidation additives. **SN-701** is an economic food grade lubricant for applications where incidental food contact is possible.

| Specifications              | Method     | SN - 701          |
|-----------------------------|------------|-------------------|
| Base oil type               |            | White oil         |
| Thickener type              |            | Anhydrous Calcium |
| Dropping point °C           | ASTM D 566 | 130-140           |
| NLGI Consistency            |            | 2                 |
| Worked penetration, 60 Dh   | ASTM D 217 | 265 – 295         |
| Operating Temperature Range |            | -25 °C to +100 °C |
| Colour                      |            | White             |

**SN-704**

## Food Grade Aluminium Complex Grease



**SN-704** is a multipurpose, food grade grease based on white mineral oil and Aluminium Complex thickener. This Grease is fortified with food grade extreme pressure, anti-wear, anti-corrosion and anti-oxidation additives. **SN-704** is suitable for moderate to heavily loaded applications where incidental food contact is possible.

| Specifications              | Methods     | Unit                     | SN-704             |
|-----------------------------|-------------|--------------------------|--------------------|
| Base oil type               |             |                          | White oil          |
| Base oil viscosity @ 40 °C  | ASTM D 445  | cSt (mm <sup>2</sup> /s) | 220                |
| Thickener type              |             |                          | Aluminium Complex  |
| Dropping point              | ASTM D566   | °C                       | >250               |
| NLGI Consistency            |             | NLGI- class              | 2                  |
| Worked penetration          | ASTM D217   | mm/10                    | 265 – 295          |
| 4 Ball Weld Load            | ASTM D 2596 | Kgf                      | 250 min            |
| Operating Temperature Range |             |                          | -20 °C to + 150 °C |
| Colour                      |             |                          | White              |

# **SiNDA** **LUBRICATION**



**Valve Lubricant & sealant**

**SN-508**

Gate &amp; Plug Valve Lubricant and Sealant



**SN-508** is a fully synthetic valve lubricant and sealant designed to be used for gate and plug valve. This lubricant contains high performance additives and specially selected solid lubricants to provide excellent anti-wear, anti-corrosion and extreme pressure properties. SN-508 resists washout by crude oil, distillates or other petroleum hydrocarbons. SN-508 effectively reduces torque and provides leak proof seal.

| Specifications                                                              | Method                  | SN - 508                       |
|-----------------------------------------------------------------------------|-------------------------|--------------------------------|
| Base oil type                                                               |                         | Synthetic oil                  |
| Thickener type                                                              |                         | Inorganic                      |
| Dropping point                                                              | ASTM D 566              | None                           |
| NLGI Consistency                                                            |                         | 2                              |
| Unworked Penetration                                                        | ASTM D 217              | 265 – 295                      |
| Worked penetration, 60 Dh                                                   | ASTM D 217              | 265 – 295                      |
| 4 Ball Weld Load, Kg                                                        | ASTM D 2596             | ≥ 400                          |
| <b>The Resistance of Grease to Fuel</b>                                     | -                       | -                              |
| Solubility Test                                                             |                         | Pass                           |
| Deterioration of the sample @ 23±2 °C                                       | DEF STAN 91-6/4 ANNEX B | No deterioration of the sample |
| After 7 ± 0.5 hrs Immersion in Test Fluid                                   |                         | No deterioration of the sample |
| After 24 hrs Air Drying                                                     |                         | No deterioration of the sample |
| <b>The Resistance of Grease to Water</b>                                    | -                       | -                              |
| Disintegration of the Sample                                                | DEF STAN 91-6/4 ANNEX B | No deterioration of the sample |
| Appearance of the Water                                                     |                         | Clear                          |
| <b>The Resistance of Grease to Aqueous Alcohol @ 23±2 °C for 168 ±2 hrs</b> | -                       | -                              |
| Disintegration of the Sample                                                | DEF STAN 91-6/4 ANNEX B | No deterioration of the sample |
| Appearance of the Aqueous Alcohol                                           |                         | Clear                          |
| Corrosion & Rust Preventive Property @ 52 °C, 48 hrs                        | ASTM D 1743             | Pass                           |
| Operating Temperature Range                                                 |                         | -25 °C to +260 °C              |
| Colour                                                                      |                         | Black                          |

**SN-509**

Gate &amp; Plug Valve Lubricant and Sealant



**SN-509** is a fully synthetic valve lubricant and sealant designed to be used for ball, gate and plug valves. This lubricant contains high performance additives, micronized **PTFE** and other specially selected solid lubricants to provide excellent anti-wear, anti-corrosion and extreme pressure properties. PTFE micronized particles will seal minor scratches to sealing surfaces and shallow corrosion pits. SN-509 resists washout by crude oil, distillates or other petroleum hydrocarbons. SN-509 effectively reduces torque and provides leak proof seal in valves with minor leak problems.

| Specifications              | Method      | SN - 509          |
|-----------------------------|-------------|-------------------|
| Base oil type               |             | Synthetic oil     |
| Thickener type              |             | Inorganic         |
| Dropping point              | ASTM D 566  | None              |
| NLGI Consistency            |             | 2                 |
| Worked penetration, 60 Dh   | ASTM D 217  | 220 – 250         |
| 4 Ball Weld Load, Kgf       | ASTM D 2596 | ≥ <b>400</b>      |
| Special Additive            | -           | <b>PTFE</b>       |
| Operating Temperature Range |             | -25 °C to +260 °C |
| Colour                      |             | Black             |

**SN-507**

Silicone Grease



**SN-507** is a silicone oil based valve lubricant and sealant. This grease can be used as an effective lubricant for plastic-plastic and metal-plastic surfaces. SN-507 is highly adhesive and it is extremely water resistant, making it an effective sealant.

| Specifications              | Method     | SN - 507          |
|-----------------------------|------------|-------------------|
| Base oil type               |            | Silicone oil      |
| Thickener type              |            | Inorganic         |
| Dropping point              | ASTM D 566 | None              |
| NLGI Consistency            |            | 3                 |
| Worked penetration, 60 Dh   | ASTM D 217 | 220 – 250         |
| Operating Temperature Range |            | -25 °C to +260 °C |
| Colour                      |            | Translucent       |



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