



LUBRIPRO

Creation date: 15 mai 2020

# TECHNICAL DATA SHEET

## LP SYN SÉRIE CPM



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(NLGI - 1.5) < ISO-VG 220 & 460

### DESCRIPTION

The LPSyn CPM Series lubricants represent the latest technology using synthetic DTPs in greases and are recommended for extended service applications while reducing operating costs and extending component life. LPSyn CPM Series synthetic greases are available in NLGI 1.5 grades with ISO-VG 220 and 460 base oils.

The LPSyn CPM Series is designed for use in the most critical paper machine bearing applications. These greases provide exceptional protection against rust and corrosion from acidic and alkaline waters, making them ideal for use in the wet parts of the paper machine. The low volatility and excellent oxidation stability of the PAO base oil ensures high performance service at high temperatures.

The LPSyn CPM Series has characteristics that are enhanced by a special additive system that protects against wear, rust, corrosion, oxidation, thermal wear and reinforces its water resistance properties.

Both grades of the LPSyn-CPM Series offer performance in demanding conditions of high and low temperatures and can save energy and reduce operating temperatures.

The LPSyn-CPM Series is formulated with premium additives for extreme pressure (EP), anti-wear and is fully inhibited to resist corrosion and oxidation.

*LPSyn CPM Series greases are compatible with conventional lithium and/or lithium complex greases. They contain extreme pressure (EP) additives and offer superior corrosion protection.*

| CHARACTERISTICS                                                                | ADVANTAGES AND BENEFITS                                                                                                                                    |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exceptional performance at low and high temperatures                           | Wide operating temperature range from -40° to +150°C (excellent protection at high temperatures and low torque). Trouble-free starting at low temperatures |
| Excellent protection against wear, rust and corrosion, including acidic waters | Fewer unplanned shutdowns and reduced maintenance costs. (Reduced wear, rust and corrosion even in wet, acidic or alkaline environments)                   |
| Excellent oxidation structural stability and resistance to oxidation           | Long service life and extended lubrication intervals. Longer bearing life                                                                                  |
| Excellent wear protection under high loads, low speeds and high temperatures   | Excellent bearing protection under high loads, low speeds and extended service life                                                                        |
| Exceptional stability in the presence of water                                 | Excellent grease performance even in hostile wet environments                                                                                              |
| Low volatility                                                                 | Prevents viscosity from increasing at high temperatures. Lubrication intervals are maximized and bearing life is extended.                                 |

### LUBRIPRO CANADA

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The greases of the LPSyn CPM Series are designed for use in critical paper machine bearing applications.

These applications include :

- Bearings in wet parts of paper machines
- Heavily loaded bearings in the press section
- High temperature bearings of felt rolls and winding machines.

### SPECIFICATIONS & APPROVALS

These lubricants meet or exceed the requirements: PM-220 / PM-460

DIN 51825 : 2004-06 - KP HC 1-2 N - 40

X

X

### TECHNICAL SPECIFICATIONS

| Characteristics                                     | ASTM Method | Average results       |                       |
|-----------------------------------------------------|-------------|-----------------------|-----------------------|
| <i>Lubricant name ... →</i>                         |             | LPSyn CPM-220         | LPSyn CPM-460         |
| Base oil viscosity + (SHC)                          |             | 220                   | 460                   |
| Viscosity (VG):<br>@ 40 °C / 100 °C → cst (nnnnz/s) | D446        | 220 / 26              | 460 / 47              |
| Min. viscosity index (VI)                           |             | 155                   | 155                   |
| Grade NLGI                                          |             | 1,5                   | 1,5                   |
| Thickener                                           |             | Lithium Complex       | Lithium Complex       |
| Color                                               |             | Off-white (Cream)     | Off-white (Cream)     |
| Texture                                             |             | Homogenous / Adhesive | Homogenous / Adhesive |
| Corrosion of copper blade                           | D4048       | 1A                    | 1A                    |
| Corrosion Protection                                | DI743       | Past                  | Past                  |
| Drop point. °C                                      | D2265       | 275                   | 275                   |
| SKF Emcort rust test, acidic water, bearing 1       | D6138       | 0                     | 0                     |
| SKF Emcort rust test, acidic water, bearing 2       | D6138       | 0                     | 0                     |
| SKF Emcort rust test, distilled water, bearing 1    | D6138       | 0                     | 0                     |
| SKF Emcort rust test, distilled water, bearing 2    | D6138       | 0                     | 0                     |
| Worked penetration                                  | D217        | 305                   | 305                   |
| Washing with water, % loss at 79°C                  | D1264       | 2                     | 3                     |
| Welding load with 4 balls, (kgf)                    | D2596       | 250                   | 250                   |
| Wear test 4 balls, indentation dia.,mm              | D2266       | 0,5                   | 0,5                   |
| Timken load OK, (lbs)                               | D2509       | 65                    | 65                    |

### VERY IMPORTANT NOTE

Never forget that the operating temperature is a very important factor in determining the viscosity of your lubricant and its longevity. At every 15°C increase in operating temperature, the life of your lubricant is cut in half.

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### ABAQUE CURVE OF CALCULATIONS VISCOSITY vs TEMPERATURE

FLUID VISCOSITY, ASTM D-445 (cSt) : @ 40°C / 100°C

**460 / 47**

| TEMPERATURE<br>(°C) | LPSyn CPM-460<br>(cSt) |
|---------------------|------------------------|
| 40                  | 460                    |
| 50                  | 280                    |
| 60                  | 190                    |
| 70                  | 127                    |
| 80                  | 85                     |
| 90                  | 55                     |
| 100                 | 47                     |
| 110                 | 37                     |
| 120                 | 30                     |
| 130                 | 23                     |
| 140                 | 20                     |
| 150                 | 17                     |

#### VERY IMPORTANT NOTE

##### Safety factor (Kappa)

Don't forget to multiply by **2.5 and even 3.5** your minimum viscosity required to obtain your safety factor in the operation of your bearing at a given temperature. For more information on the subject, contact your lubrication technical advisor.

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