



# YOKOHAMA / SLIDE OIL

## ISO VG 32 / 68 / 220

TECHNICAL DATA SHEET | TDS

SLIDEWAY LUBRICANTS

### PRODUCT DESCRIPTION

YOKOHAMA SLIDE OIL is a range of ISO VG 32, 68 and 220 lubricants developed for machine tool slideways. Its adhesive oil film and controlled friction help limit stick-slip and support smooth, accurate table movement. Anti-wear, load-carrying and corrosion protection properties help protect guide surfaces under demanding conditions. Separation from water-miscible metalworking fluids supports cleaner coolant systems and consistent machine operation.

### APPLICATIONS

For slideways, tables and feed mechanisms on CNC machining centres, lathes, milling, grinding and drilling machines. ISO VG 32 is suited to lighter loads and higher speeds; ISO VG 68 to common horizontal slideways; and ISO VG 220 to heavily loaded vertical or inclined guides. Suitable for cast iron, steel and compatible synthetic guide materials. Select the viscosity and lubrication method according to equipment requirements. Use in shared hydraulic and slideway circuits only where both systems specify a compatible lubricant.

### PERFORMANCE SPECIFICATIONS

|                  |           |                  |            |
|------------------|-----------|------------------|------------|
| DIN 51502        | CGLP      | FIVES CINCINNATI | P-47 (68)  |
| ISO 6743-13      | GA / GB   | FIVES CINCINNATI | P-50 (220) |
| FIVES CINCINNATI | P-53 (32) |                  |            |

### TYPICAL TECHNICAL CHARACTERISTICS

| PROPERTY                             | TEST METHOD           | TYPICAL VALUE |        |        |
|--------------------------------------|-----------------------|---------------|--------|--------|
|                                      |                       | 32            | 68     | 220    |
| ISO viscosity grade                  | ISO 3448              | 32            | 68     | 220    |
| Kinematic viscosity at 40°C (mm²/s)  | ASTM D445 / ISO 3104  | 32.00         | 68.00  | 220.33 |
| Kinematic viscosity at 100°C (mm²/s) | ASTM D445 / ISO 3104  | 5.35          | 8.90   | 19.30  |
| Viscosity index                      | ASTM D2270 / ISO 2909 | 98.00         | 104.00 | 99.00  |
| Density at 15°C (kg/m³)              | ISO 12185             | 870           | 879    | 894    |
| Flash point, COC (°C)                | ISO 2592              | 215           | 225    | 250    |
| Pour point (°C)                      | -                     | -21.75        | -17.86 | -10.40 |

Note: The values shown in this table are typical values and do not constitute product specifications. Minor variations may occur between production batches due to normal manufacturing tolerances.