

# PRODUCT INFORMATION



## Powers-All CV Way Oil

**DESCRIPTION:** Powers-All CV Way Oil is a premium way oil designed for the lubrication of horizontal and vertical slideways on machine tools. It is engineered from high quality base stocks and the latest sulfur free additive technology. **Powers-All CV Way Oil** is water white in color for ease of visibility of machined parts and exhibits exceptional frictional properties that eliminate stick-slip which aids in accurate machining, provides excellent rust and corrosion protection, exhibits excellent adhesive properties and is specially designed to separate quickly and completely from water-miscible metalworking coolants.

- BENEFITS:**
- Excellent water separation
  - Reduction of friction and wear
  - Exceptional rust, corrosion, and wear protection
  - Lighter color to provide good visibility of slideways

**Applications:** Powers-All CV Way Oil is recommended for slides and ways of planers, grinders, mills, lathes, screw machines, drilling machines, boring machines, and other tools and machines. The ISO VG 32\*, 68 and 220 grades have been formulated to meet requirements of the Fives Group (formerly Cincinnati Machine) specifications covering machine tool way lubricants. **Note:** P-53\* is a Combination Hydraulic and Way Oil Specification.

**Powers-All Way Oils**

| ISO Viscosity Grade       |             | 32                   | 68                   | 220                  |
|---------------------------|-------------|----------------------|----------------------|----------------------|
| Product Code              | Test Method | PA336470             | PA336474             | PA336478             |
| Viscosity, cSt @ 40°C     | ASTM D-445  | 32.0                 | 68.0                 | 219.0                |
| Viscosity, cSt @ 100°C    | ASTM D-445  | 5.3                  | 8.7                  | 19.5                 |
| Viscosity Index           | ASTM D-2270 | 100                  | 100                  | 100                  |
| Pour Point, °F            | ASTM D-97   | -20                  | -20                  | 5                    |
| Flash Point, COC, °F      | ASTM D-92   | 420                  | 450                  | 500                  |
| Copper Corrosion          | ASTM D-130  | 1b                   | 1b                   | 1b                   |
| Demulsibility             | ASTM D-1401 | 40/40/0 (10)<br>54°C | 40/40/0 (10)<br>54°C | 40/40/0 (15)<br>82°C |
| Rust Test, A & B          | ASTM D-665  | Pass                 | Pass                 | Pass                 |
| Fives Group Specification |             | P-53*                | P-47                 | P-50                 |

*\*Note: Values shown are typical only and do not constitute a specification. Minor variations in product are to be expected in normal manufacturing.*



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