

HIGH SPEED QUENCH BW-1280C

Accelerated quench oil

Description

BW-1280C is high quality quenchant formulated from premium hydrocracked base oil stock.

BW-1280C is designed for operating conditions that require accelerated oil to develop maximum hardness with minimum distortion and shiny surface.

Benefits

1. **Excellent thermal stability** – Recommended for use when part must retain a bright finish.
2. **Controlled cooling rate** – Provide a high initial cooling rate including maximum hardness, yet once the critical transformation temperature is passed, the ideal fluid cooling rate decreases to eliminate the possibility of stress and metal distortion.
3. **Exceptional oxidation resistance** – Results in extended oil life, brighter quenched part, and greater cooling efficiency of oil.
4. **Stable additive package** – Minimal loss of additives due to extended use.

Typical properties

| Items | Results | Test method |
|--|--------------|-------------|
| Appearance | Black liquid | Visual |
| Specific gravity, 15/4 °C | 0.847 | ASTM D1298 |
| Kinematic Viscosity, 40 °C, mm ² /s | 18.0 to 19.6 | ASTM D 445 |
| Flash point, °C | Min. 200 | ASTM D1287 |
| Total Acid Number, mgKOH/g | 0.10 | ASTM D 664 |
| Leidenfrost temp, 80 °C, °C | Min. 600 | JIS K 2242 |
| Cooling time to 400 °C, 80 °C, sec | Max. 3.0 | (KS M 2172) |

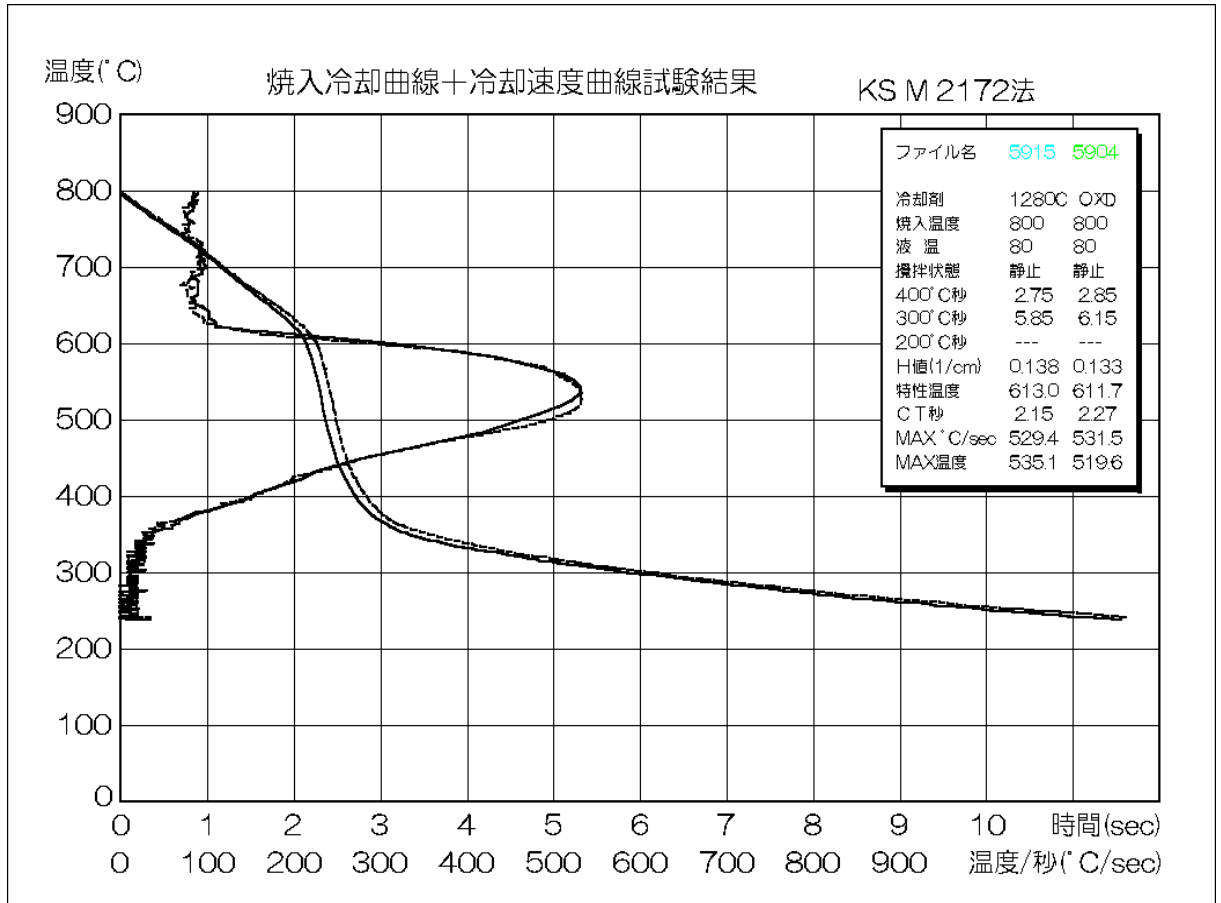
* Above test results are new fluid's typical properties, can be changed by quality improvement.

Application

At open type quench tank, BW-1280C is recommended for use

- in hardening, carburizing and carbonitriding of forged or pressed steel.
- in hardening of small or thick bearing steel.
- in carburizing and carbonitriding of low-alloy steel.
- in hardening of carbon tool steel and alloy steel.

Cooling and cooling speed curve of BW-1280C



※ CURVE NO.5904: After Oxidation stability test (24Hr, Indiana type)

- Bath temperature control** Viscosity and cooling properties of quenching oil are variable according to the temperature.
 - Recommended oil temperature is 40 to 90 °C. Do not exceed 100 °C.
 - Do not increase over 20 °C than initial bath temperature.
- Term of validity** 12 months from the date of manufacture at sealed state.
- Safety information** Refer to the our MSDS for safety information.

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