BUHMWOO CHEMICAL

SEMI-HOT BW-2100S

Medium hot quench oil

Description

BW-2100S is high quality medium hot oil quenchant formulated from premium hydrocracked base oil stock.

BW-2100S is designed for operating conditions that require minimum distortion, proper core hardness and shiny surface.

Benefits

- 1. **Excellent thermal stability** Recommended for use when part must retain a bright finsh.
- 2. **Controlled cooling rate** BW-2100S is suitable in processing of distortion-sensitive parts which can't be processed with high speed quench
- 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 ℃	0.860	ASTM D1298
Kinematic Viscosity, 100 °C, mm²/s	7.36 to 8.36	ASTM D 445
Flash point, °C	Min. 230	ASTM D1287
Total Acid Number, mgKOH/g	0.40 to 0.60	ASTM D 664
Leidenfrost temp, 120 ℃, ℃	Min. 575	JIS K 2242
Cooling time to 400 °C, 120 °C, sec	Max. 4.0	(KS M 2172)

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

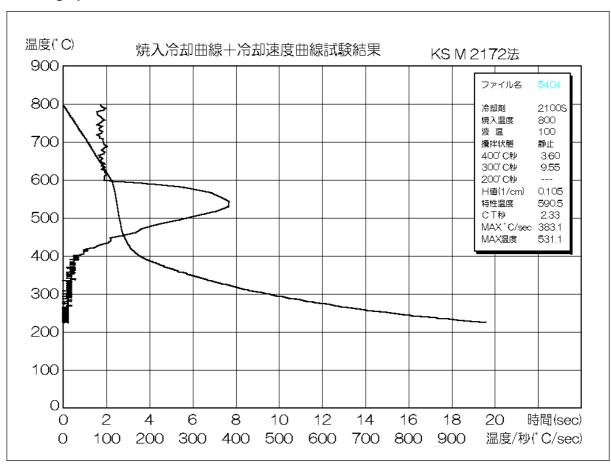
Application

At Batch type quench furnace, BW-2100S is recommended for use

- in hardening, carburizing and carbonitriding of thin forged or pressed steel
- in hardening of bearing-race.
- in carburizing, carbonitriding of gear.
- in hardening of carbon tool steel and alloy steel with minimum distortion.
- in improving core hardness of distortion sensitive carburization shafts.



Cooling and cooling speed curve of BW-2100S



Bath temperature control

Viscosity and cooling properties of quenching oil are variable according to the temperature.

- Recommended oil temperature is 80 to 120 °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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