

# VBC HEATTREAT HMT-2200V

**Description** HMT-2200V is high quality martempering oil quenchant formulated from premium Hydro cracked base oil stock.  
HMT-2200V is designed for operating conditions that require minimum distortion and shiny surface.

- Benefits**
1. Excellent thermal stability – Recommended for use when part must retain a bright finish.
  2. Controlled cooling rate – HMT-2200V is suitable in processing of distortion-sensitive parts.
  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**

TEST ITEM	RESULT	TEST METHOD
Appearance	Yellow to Amber liquid	Visual
Specific gravity (15/4°C)	0,89	ASTM D 1298
Kinematic Viscosity, 100°C, mm <sup>2</sup> /s	20	ASTM D 445
Flash point, °C	Min.260	ASTM D 1287
Leidenfrost temp, 120°C, °C)	653	JIS K 2242
Cooling time to 400°C, 120°C, sec	-20	(KS M 2172)

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

**Application**

At Batch type quench furnace, HMT-2200V is recommended for use in hardening, carburizing and carbonitriding of thin forged or pressed steel in hardening of bearing-race.

**Bath Temperature Control**

in carburizing, carbonitriding of gear  
in hardening of carbon tool steel and alloy steel with minimum distortion.  
in hardening of distortion sensitive carburization shafts.  
viscosity and cooling properties of quenching oil are variable according to the temperature

**Term of**

- Recommended oil temperature is 110 to 160 °C .
  - Do not increase over 20°C than initial bath temperature.
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- 12 months from the date of manufacture at sealed state, 0 to 40 °C .

**Safety information**

Refer to the our MSDS for safety information

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