

Shell VOLUTA® VH401

Shell VOLUTA® VH401 is made from highly refined paraffinic base oils and is used in quench and marquench operations.

Performance Features and Benefits

- Heat dissipation
- Controlled hardness

Main Applications

Shell VOLUTA® VH401 is recommended for the production of very hard parts especially where distortion of the quenched parts cannot be tolerated.

Shell VOLUTA® VH401 is suitable for use in baths up to 350°F. The bath temperature should be maintained as low as possible, while achieving the desired metallurgical results.

The lifetime of the quenching oil depends on the control of temperature.

Make sure that the heating components, the cooling and agitation systems all work properly.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

Shell VOLUTA®	Test Method	VH401
Appearance		
Viscosity:		
@ 40°C, cSt	D 445	243
@ 100°C, cSt	D 445	20.0
@ 100°F, SUS	D 88	1288
@ 210°F, SUS	D 88	101
Viscosity Index	D 2270	95
Gravity, °API	D 1298	27.2
Flash Point, COC, °F	D 92	565
Pour Point, °F	D 97	5
Quench Speed	D 3520	
Seconds, 70°F		37
Relative Cooling Index		85
GM Quench Speed, Seconds		34

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.

