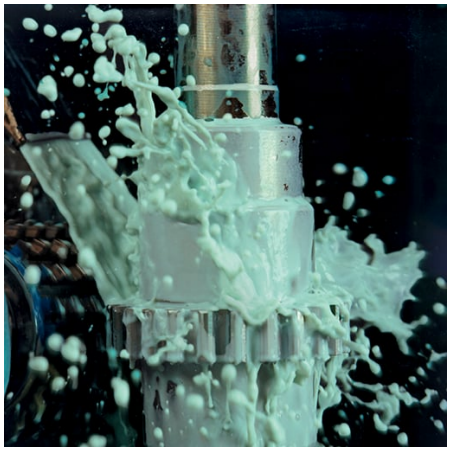
TRIM® VHP® E200PW

Very High-pressure, Pratt & Whitney Approved Emulsion

TRIM VHP E200PW is an emulsion (soluble oil) coolant that specializes in heavy-duty machining and creepfeed grinding of aircraft alloys. Pratt & Whitney has approved this product for use on all materials and it applies to both Pratt & Whitney facilities and authorized subcontractors. The Pratt & Whitney approval number is PMC 9390.

VHP



Stand up to pressure:

TRIM® VHP® (Very High Pressure) fluids perform in high-volume, high-pressure applications with little to no foam. These specialized heavy-duty emulsions (or soluble oils) are used in very high-pressure operations where extreme lubrication is required.

VHP soluble oils provide the boundary lubrication necessary in operations such as creepfeed grinding, drilling, milling, turning, tapping, or roll-form threading of multiple metals.

VHP soluble oils leave a soft, fluid film for easy cleaning, and lower maintenance costs.

Aerospace Approvals

Company	Specification
Raytheon Technologies/Collins Aerospace/Pratt & Whitney	PMC 9390

Choose VHP E200PW:

- Pratt & Whitney (PMC 9390) approved for use in all grinding and machining operations on all metals
- No foam at very high pressures and volumes
- Contains a proven and highly effective, nonchlorinated, extreme-pressure additive to control built-up edge and wheel loading
- Very high levels of boundary lubrication for superior tapping, reaming, and form grinding results
- Leaves a soft fluid film to prevent sticky ways, chucks, tool holders, and fixtures
- Machines are easily washed off with coolant working solution to minimize the buildup of residues and chips
- Easy recycling or disposal with conventional techniques and equipment
- Runs effectively for long periods without the need for costly additives

VHP E200PW especially for:

Applications — creep-feed grinding, form grinding, grinding, heavy-duty machining center work, high-pressure, high-volume, machining, reaming, and tapping

Metals — aerospace alloys

Industries — aerospace

VHP E200PW is free of — chlorinated compounds and NPEs

Master Fluid SOLUTIONS®

TRIM® VHP® E200PW

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Application Guidelines

- Run at lower concentrations for higher speed operations where heat removal is the key issue.
- Run at higher concentrations on soft, gummy materials and for lower speed operations where friction reduction and control of built-up edge are critical.
- For additional product application information, including performance optimization, please contact your Master Fluid Solutions' Authorized Distributor at https://www.masterfluids.com/na/en-us/distributors/index.php, your District Sales Manager, or call our Tech Line at 1-800-537-3365.

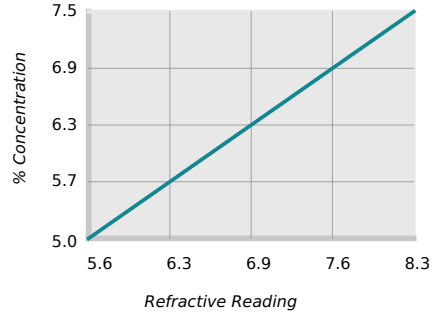
Physical Properties Typical Data

Color (Concentrate)	Olive green to amber
Color (Working Solution)	Milky white
Odor (Concentrate)	Mild, oily
Form (Concentrate)	Liquid
Flash Point (Concentrate) (ASTM D93-08)	> 360°F
pH (Typical Operating as Range)	8.2 - 8.9
Coolant Refractometer Factor	0.9
V.O.C. Content (ASTM E1868-10)	112 g/l

Recommended Metalworking Concentrations

Light Duty	5.0% - 5.5%
Moderate Duty	5.5% - 7.5%
Heavy Duty	7.5% - 7.5%
Design Concentration Range	5.0% - 7.5%

Concentration by % Brix



% Concentration = Refractive Reading x Refractive Factor
Coolant Refractometer Factor % Brix = 0.9

Health and Safety

Request SDS

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Mixing Instructions

- Recommended usage concentration in water: 5.0% - 7.5%.
- To help ensure the best possible working solution, add the required amount of concentrate to the required amount of water (never the reverse) and stir until uniformly mixed.
- Use premixed coolant as makeup to improve coolant performance and reduce coolant purchases. The makeup you select should balance the water evaporation rate with the coolant carryout rate. Use our Coolant Makeup Calculator to find the best ratio for your machine: apps.masterfluids.com/makeup/.
- Use mineral-free water to improve sump life and corrosion inhibition while reducing carryoff and concentrate usage.

1-gallon jug
SKU: VHPE200P-1G
UPC-12: 641238024118

5-gallon pail
SKU: VHPE200P-5G
UPC-12: 641238011927

54-gallon drum
SKU: VHPE200P-54G
UPC-12: 641238011934

270-gallon tote
SKU: VHPE200P-270G
UPC-12: 641238036180

Additional Information

- Use Master STAGES™ Whamex™ for a quick and thorough precleaning of your machine tool and coolant system.
- Consult Master Fluid Solutions before using on any metals or applications not specifically recommended.
- This product should not be mixed with other metalworking fluids or metalworking fluid additives, except as recommended by Master Fluid Solutions, as this may reduce overall performance, result in adverse health effects, or damage the machine tool and parts. If contamination occurs, please contact Master Fluid Solutions for recommended action.

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https://2trim.us/di/?i=na_en-us_VHPE200PW

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