

Study Guide - Cutting Fluids

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Which of the following is NOT a function of a cutting fluid?
- a. Cool the workpiece and tool
 - b. Lubrication
 - c. Corrosion resistance
 - d. None of the above (all are functions of cutting fluids)
- _____ 2. Which of the following is NOT a desirable characteristic of a cutting fluid?
- a. Hydrophobic reaction with the surface of the workpiece
 - b. Hydrophilic reaction with the surface of the workpiece
 - c. Corrosion resistance
 - d. Low cost
- _____ 3. This type of cutting fluid causes a film to develop on the tool surface and provides anti-weld properties. They contain sulfur, chlorine and or phosphorous.
- a. Emulsifiable cutting oils
 - b. Mineral oils
 - c. Active cutting oils
 - d. Compressed air
- _____ 4. This type of cutting fluid contains oil droplets suspended in water by special additives to hold the oil in suspension.
- a. Emulsifiable cutting oils
 - b. Mineral oils
 - c. Active cutting oils
 - d. None of the above
- _____ 5. Which of the following is not an advantage of emulsifiable oils (soluble oils)?
- a. Greater reduction of heat
 - b. Eliminates all problems associated with rancidity and bacterial growth
 - c. More economical
 - d. Potentially cleaner working conditions
- _____ 6. Which of the following is not a health risk associated with the use of cutting fluids?
- a. Oral toxicity
 - b. Inhalation toxicity
 - c. Dermal irritation
 - d. None of the above (all are health risks associated with cutting fluids)