

Chapter 6

1. How does water have the ability to extinguish fire? (P136)
 - a. Cooling
 - i. Absorbing heat from fire
 - b. Smothering
 - i. Excluding oxygen
2. What is specific heat? (P136)
 - a. The measure of heat absorbing capacity of a substance
3. What is the latent heat of vaporization? (P137)
 - a. The quantity of heat absorbed by a substance when it changes from a liquid to a vapor
4. How does water smother fire? (P138-139)
 - a. Expanding steam helps cool the fire area by displacing smoke and gases
5. What is specific gravity? (P139)
 - a. The density in relation to water
6. What are the advantages of water as an extinguishing agent? (P139-140)
 - a. Greater heat-absorbing capacity
 - b. Large amount of heat is needed to change water to steam
 - c. Greater exposed surface area
 - d. Expansion ratio of 1,700:1 thus cooling when it condenses
 - e. Plentiful and readily available in most places
7. What are the disadvantages of water as an extinguishing agent? (P140)
 - a. Water has a high surface tension and does not soak into dense materials easily
 - b. Reactive with certain fuels
 - i. Combustible metals

Fire Department Pump Operations Study Guide

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