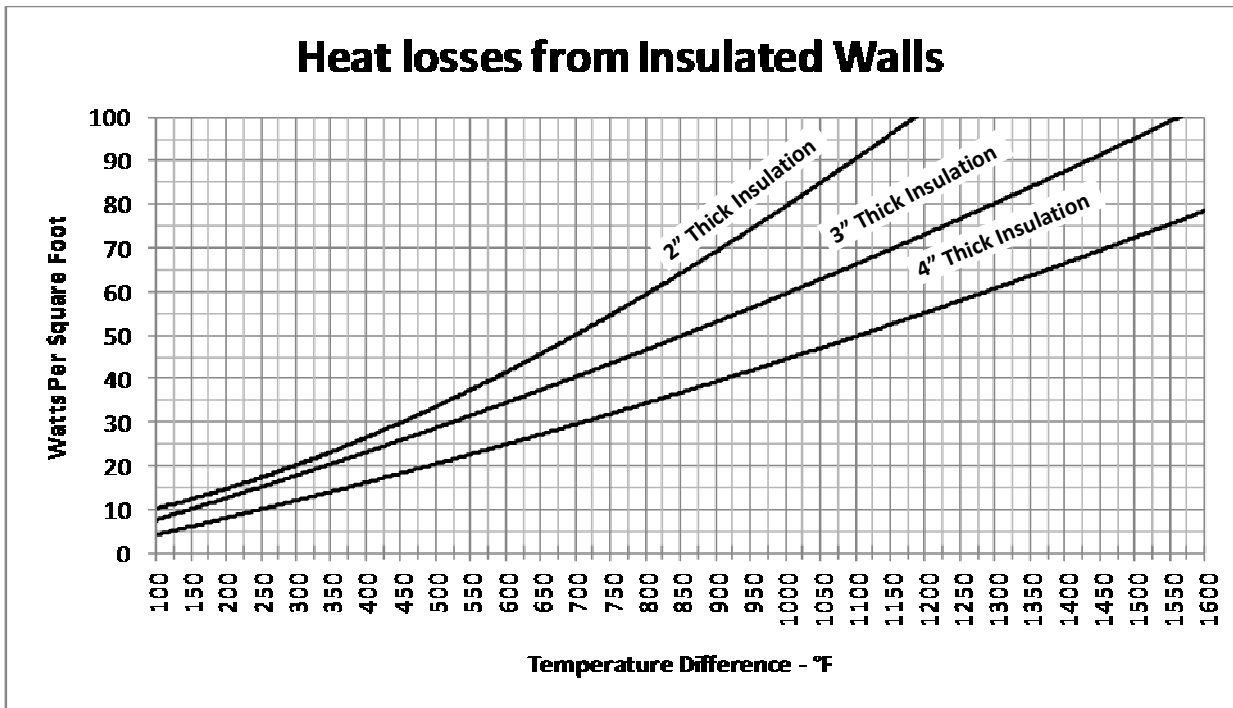
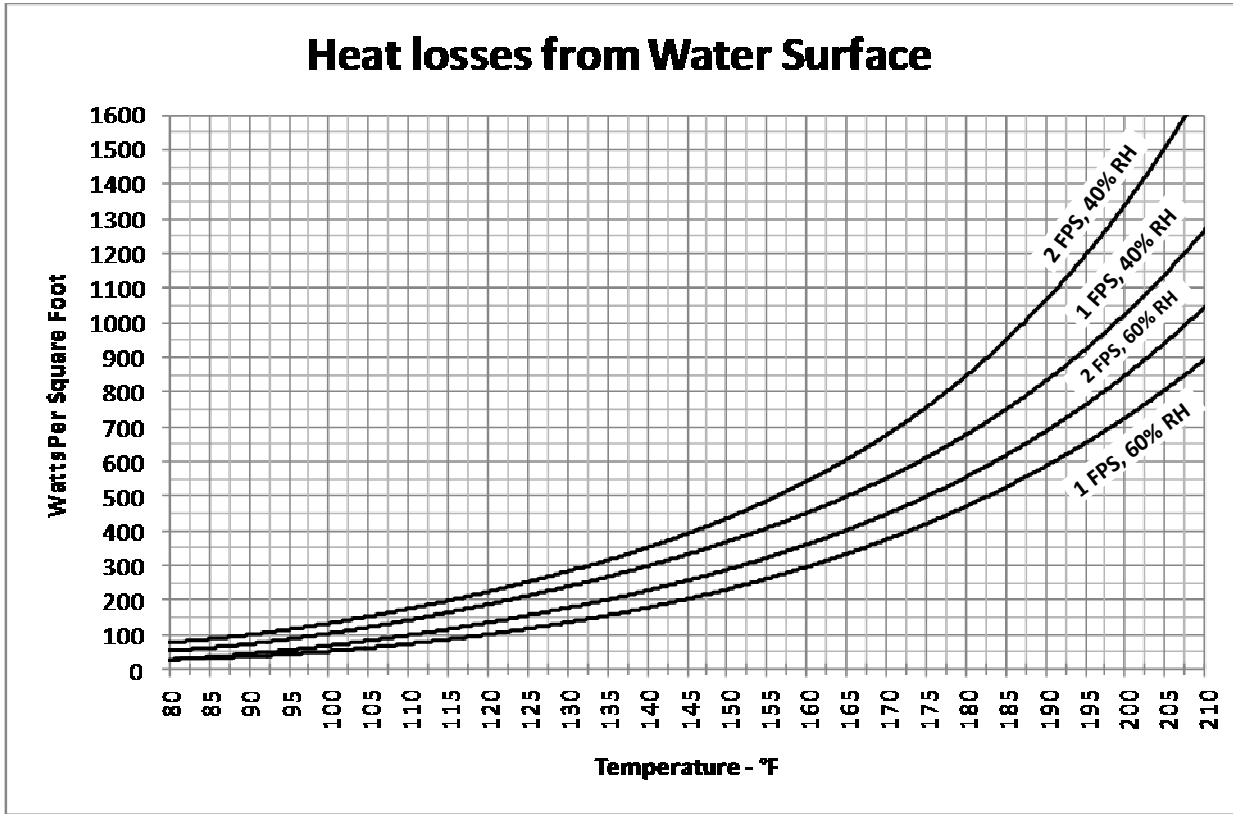
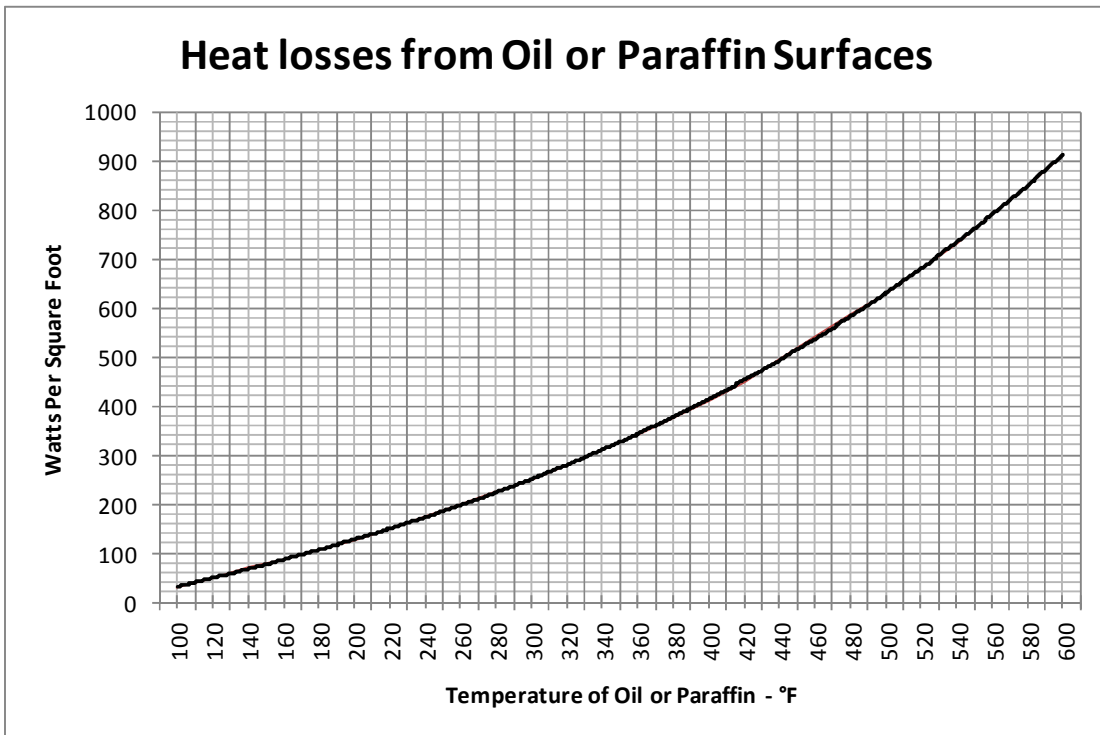
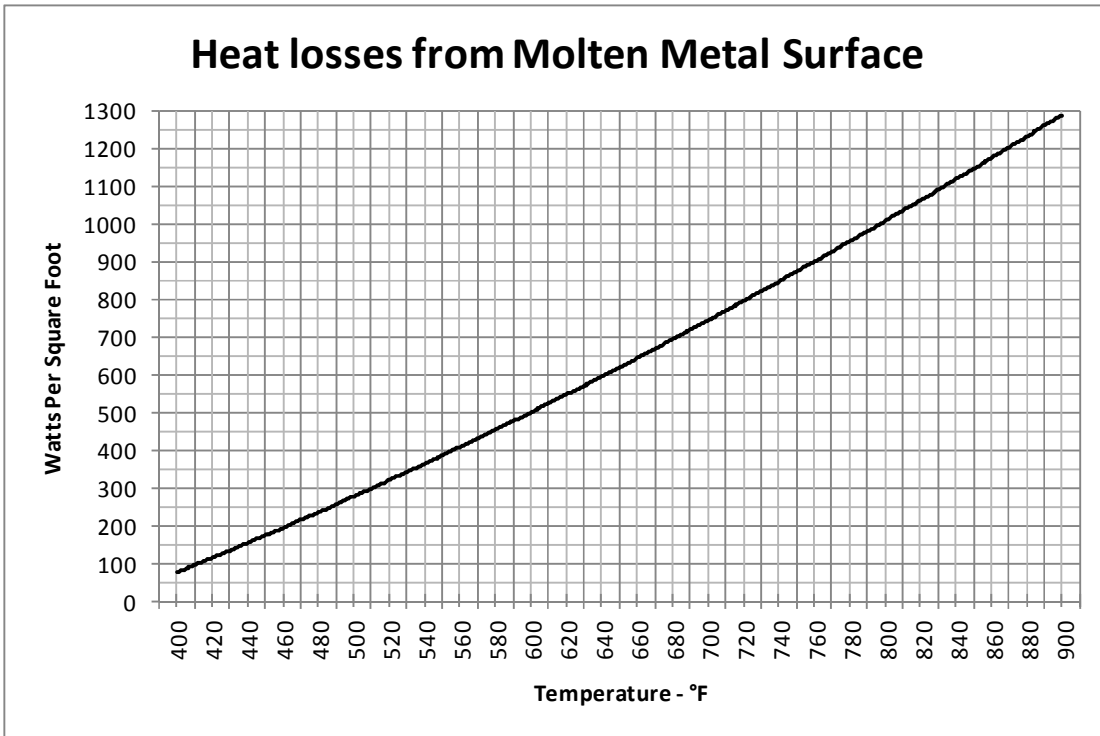


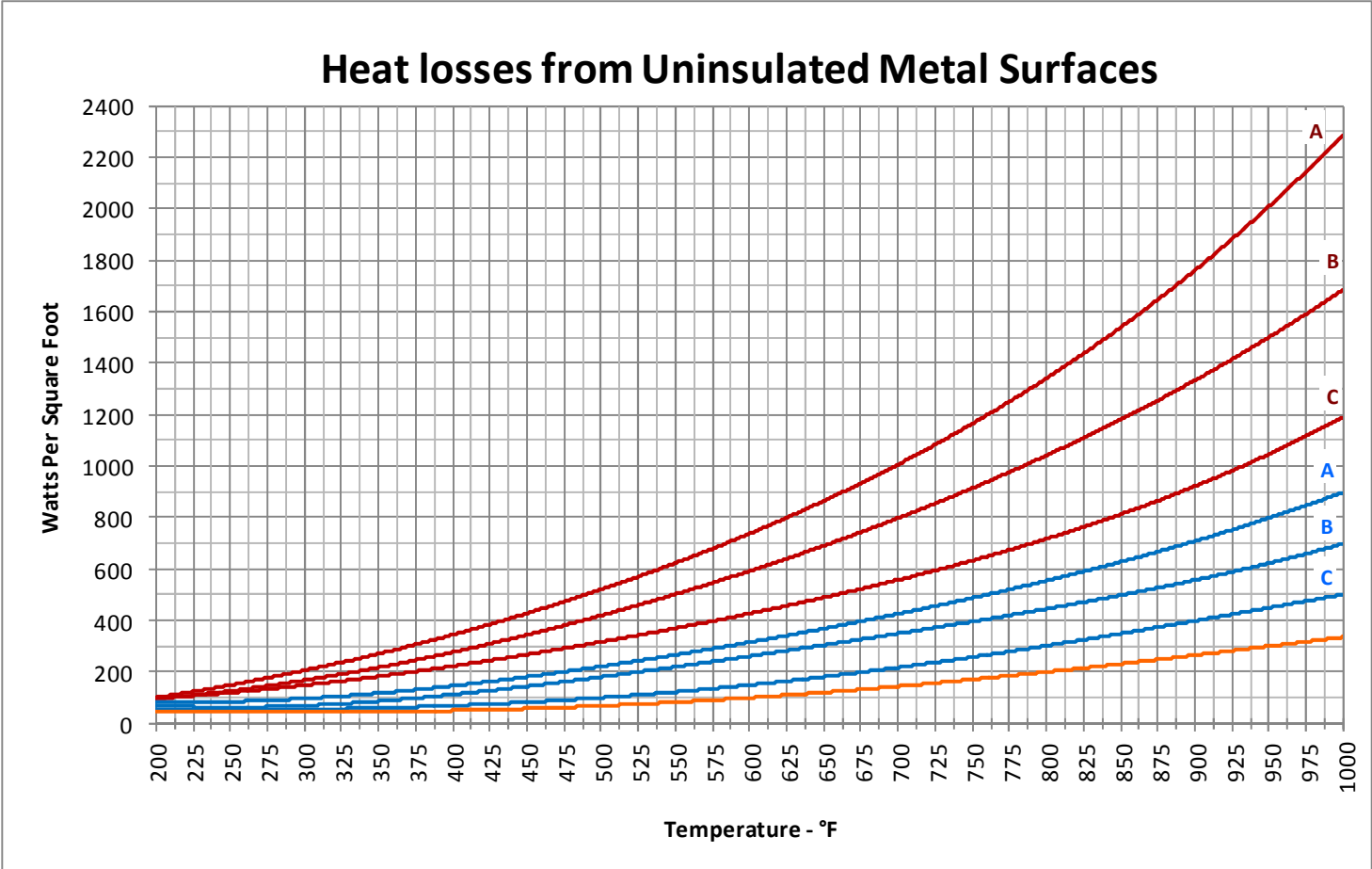
### HEAT LOSS CURVES



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### HEAT LOSS CURVES



**Oxidized Steel** — **Oxidized Aluminum** — **Semi-Dull Copper**  
**A** : Heat loss from vertical surfaces and top surface loss of horizontal surface  
**B** : Average heat loss from top and bottom of horizontal surface  
**C** : Heat loss from bottom of horizontal surface

### WATT DENSITY CALCULATIONS

#### BAND HEATERS

$$\frac{\text{Wattage}}{(\text{Diameter} \times 3.1416 \times \text{Width}) - (\text{Cold Area})}$$

#### MICA STRIP HEATERS

$$\frac{\text{Wattage}}{\text{Heated Length} \times \text{Width}}$$

#### CARTRIDGE AND TUBULAR HEATERS

$$\frac{\text{Wattage}}{\text{Diameter} \times 3.1416 \times \text{Heated Length}}$$