

# Calculation of Heater-tube Thickness in Petroleum Refineries

API STANDARD 530  
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## Ratio

1 Curve 1 for a double row against a wall, triangular spacing

2 Curve 2 for a double row with equal radiation from both sides and two diameters between rows, triangular spacing

3 Curve 3 for a single row against a wall

4 Curve 4 for a single row against a wall

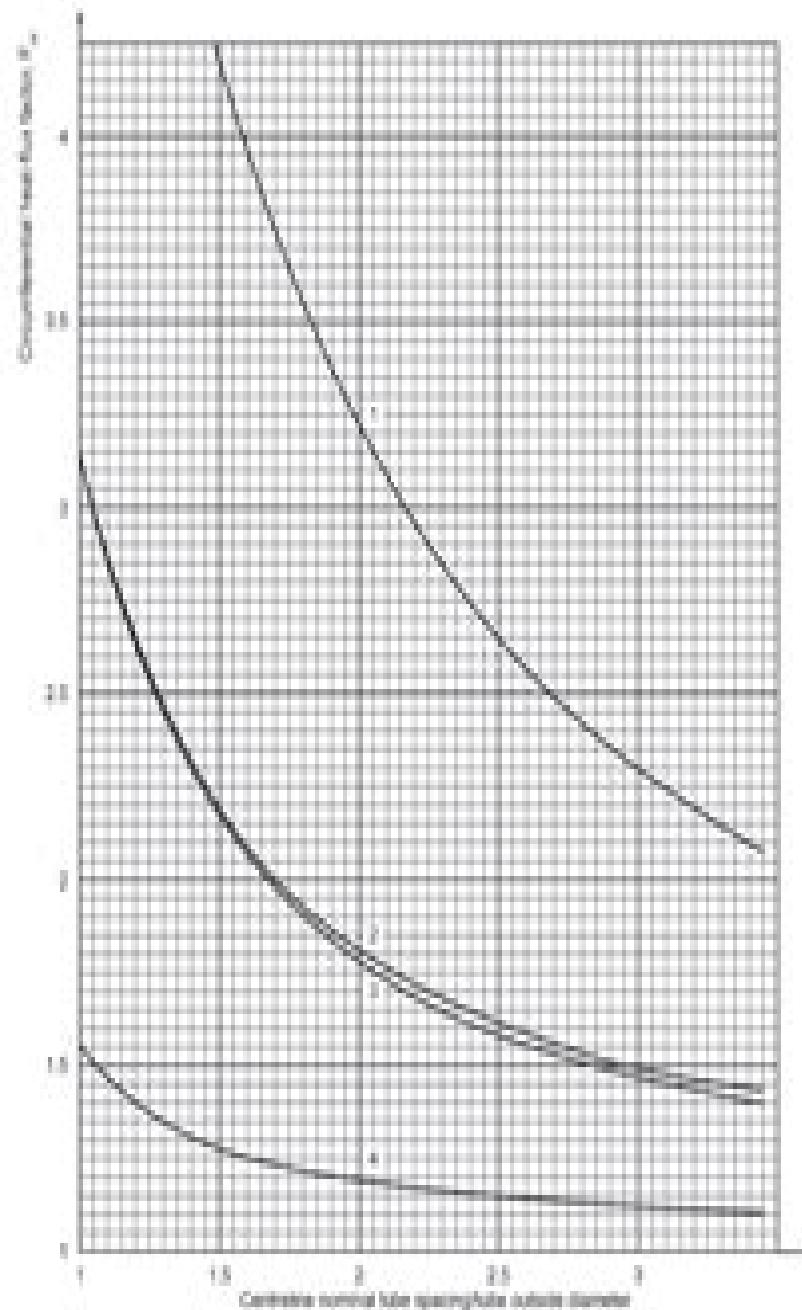
These curves are valid when used with a tube-center-to-adjacent-wall spacing of 1.1 times the nominal tube diameter.

Any departure from this spacing should be given special consideration.

NOTE 1: These curves do not take into consideration the convection heat transfer to the tubes, circumferential heat transfer by conduction through the tube wall, or variations in heat flux in different zones of the radiant section.

NOTE 2: These curves are based on the work of H. C. Hottel. Applicable papers are identified in Reference [14].

Figure 8.1—Ratio of Maximum Local to Average Heat Flux



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