

Fouling in heat exchanger tubes.

University of Birmingham - 8.6 Fouling



Description: -

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Heat Exchanger Fouling Factor

Again this is outside the direct control of the heat exchanger designer, but it can be influenced by the choice of materials as some, notably the non-ferrous brasses, are poisonous to some organisms. Three types of living organisms are considered here: algae, fungi and bacteria. Chlorination can be either continuous or of the shock type.

Types of fouling in Heat Exchanger

Types of fouling Precipitation fouling It is scale formation on heat transfer surface due to dissolved substances like CaCO_3 , CaSO_4 , salts present in water result in precipitation fouling. Fouling factor The fouling factor represents the theoretical resistance to heat flow due to the buildup of a fouling layer on the tube surfaces of the heat exchanger.

8.6 Fouling

Crystallization fouling and freezing fouling are two different events, but they do have a Vern diagram-like overlap when it comes to waxy deposits.

Understanding and preventing heat exchanger fouling

The U value is very dependent on the fluid type, the velocity, and the materials of construction. The old rules of thumb for.

Fouling in Heat Exchangers: Learn Causes, Detection, and Prevention

Proper maintenance and treatment of the cooling water, e.

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