

Fouling factor: Oils

Fluid		Fouling resistance in h.ft ² .F/Btu	Fouling resistance in m ² .K/W
Fuel Oil #2	Fouling factor of Fuel Oil #2	0.002	0.0003526
Fuel Oil #6	Fouling factor of Fuel Oil #6	0.005	0.0008815
Transformer Oil	Fouling factor of Transformer Oil	0.001	0.0001763
Engine Lube Oil	Fouling factor of Engine Lube Oil	0.001	0.0001763
Quench oil	Fouling factor of Quench oil	0.004	0.0007052

Fouling factors : gases and vapors

Fluid		Fouling resistance in h.ft ² .F/Btu	Fouling resistance in m ² .K/W
Acid gas	Fouling factor of Acid gas	0.002	0.0003526
Ammonia vapor	Fouling factor of Ammonia vapor	0.001	0.0001763
Chlorinated hydrocarbons vapors	Fouling factor of Chlorinated hydrocarbons vapors	0.001	0.0001763
Chlorine Vapor	Fouling factor of Chlorine Vapor	0.002	0.0003526
CO2 vapor	Fouling factor of CO2 vapor	0.001	0.0001763
Coal flue gas	Fouling factor of Coal flue gas	0.01	0.001763
Compressed Air	Fouling factor of Compressed Air	0.001	0.0001763
Engine exhaust gas	Fouling factor of Engine exhaust gas	0.01	0.001763
Hydrogen	Fouling factor of Hydrogen	0.0005	8.815E-05
Hydrogen (saturated with water)	Fouling factor of Hydrogen (saturated with water)	0.002	0.0003526
Light Hydrocarbon vapors (clean)	Fouling factor of Light Hydrocarbon vapors (clean)	0.001	0.0001763

Natural Gas	Fouling factor of Natural Gas	0.001	0.0001763
Natural Gas Flue Gas	Fouling factor of Natural Gas Flue Gas	0.005	0.0008815
Nitrogen	Fouling factor of Nitrogen	0.0005	8.815E-05
Polymerizable vapors (with inhibitor)	Fouling factor of Polymerizable vapors (with inhibitor)	0.003 - 0.03	0.0005289-0.005289
Refrigerant Vapors (oil bearing)	Fouling factor of Refrigerant Vapors (oil bearing)	0.002	0.0003526
Solvent Vapor	Fouling factor of Solvent Vapor	0.001	0.0001763
Stable Overhead Products	Fouling factor of Stable Overhead Products	0.001	0.0001763
Steam (non-oil bearing)	Fouling factor of Steam (non-oil bearing)	0.0005	8.815E-05
Steam (exhaust, oil bearing)	Fouling factor of Steam (exhaust, oil bearing)	0.0015	0.00026445

Fouling factors : liquids

Fluid		Fouling resistance in h.ft ² .F/Btu	Fouling resistance in m ² .K/W
Ammonia Liquid	Fouling factor of Ammonia Liquid	0.001	0.0001763
Ammonia Liquid (oil bearing)	Fouling factor of Ammonia Liquid (oil bearing)	0.003	0.0005289
Asphalt and residuum – Vacuum tower bottom	Fouling factor of Asphalt and residuum – Vacuum tower bottom	0.01	0.001763
Asphalt and residuum – Atmospheric tower bottom	Fouling factor of Asphalt and residuum – Atmospheric tower bottom	0.007	0.0012341
CO ₂ Liquid	Fouling factor of CO ₂ Liquid	0.001	0.0001763
Calcium chloride solutions	Fouling factor of Calcium chloride solutions	0.003	0.0005289
Chlorinated hydrocarbons liquid	Fouling factor of Chlorinated hydrocarbons liquid	0.001	0.0001763
Chlorine Liquid	Fouling factor of Chlorine Liquid	0.002	0.0003526
DEG & TEG Solutions	Fouling factor of DEG & TEG Solutions	0.002	0.0003526

Ethanol solutions	Fouling factor of Ethanol solutions	0.002	0.0003526
Ethylene Glycol Solutions	Fouling factor of Ethylene Glycol Solutions	0.002	0.0003526
Gasoline	Fouling factor of Gasoline	0.002	0.0003526
Heavy Fuel Oils	Fouling factor of Heavy Fuel Oils	0.006	0.0010578
Heavy Gas Oil	Fouling factor of Heavy Gas Oil	0.004	0.0007052
Hydraulic Fluid	Fouling factor of Hydraulic Fluid	0.001	0.0001763
Kerosene	Fouling factor of Kerosene	0.0025	0.00044075
Light Gas Oil	Fouling factor of Light Gas Oil	0.0025	0.00044075
Light hydrocarbon liquid (clean)	Fouling factor of Light hydrocarbon liquid (clean)	0.001	0.0001763
Methanol solutions	Fouling factor of Methanol solutions	0.002	0.0003526
MEA & DEA Solutions	Fouling factor of MEA & DEA Solutions	0.002	0.0003526
Molten heat transfer salts	Fouling factor of Molten heat transfer salts	0.0005	8.815E-05
Naphtha and Light Distillates	Fouling factor of Naphtha and Light Distillates	0.0025	0.00044075
Organic Heat Transfer Liquids	Fouling factor of Organic Heat Transfer Liquids	0.002	0.0003526
Refrigerant Liquids	Fouling factor of Refrigerant Liquids	0.001	0.0001763
Sodium chloride solutions	Fouling factor of Sodium chloride solutions	0.003	0.0005289