

S750 SCHULTZ®

Synthetic Heat Transfer Fluid

The most popular high temperature synthetic heat transfer fluid around the world brings the extremely outstanding performance to you.

-7°C ~ 350°C





One Of The World Top Three Synthetic High Temperature Heat Transfer Fluid Manufacturers

ABOUT US



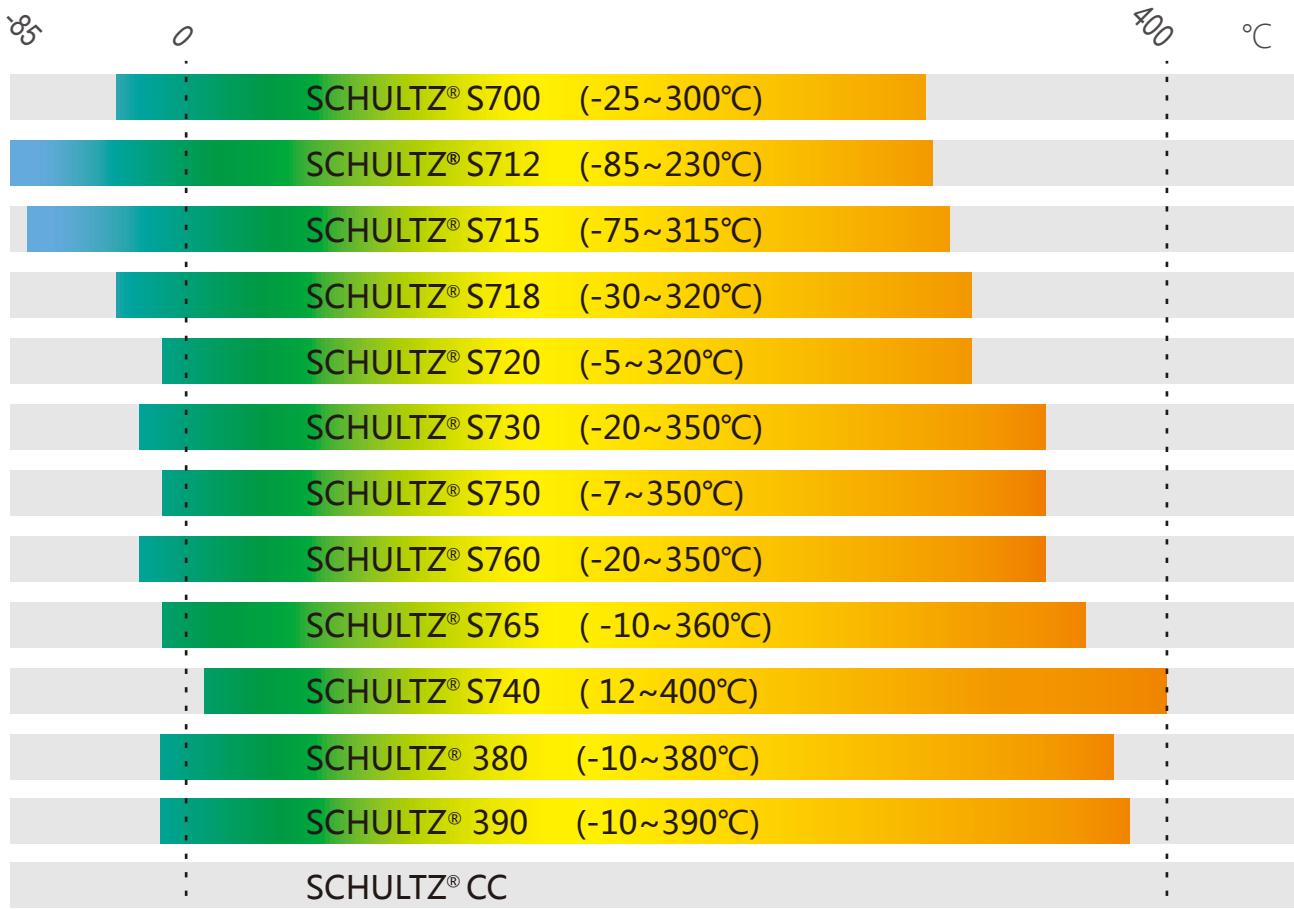
Schultz Canada Chemicals Ltd, located in Vancouver, Canada and founded in September 2013, is one of the top three manufacturers of super high temperature synthetic heat transfer fluids in the world, specializing in global marketing of SCHULTZ® synthetic heat transfer fluids and DYNOMA® functional chemicals.

Over years of development, Schultz Canada Chemicals has become a highly vertically integrated company and built the affiliate, Schultz Asia Pacific (Shanghai) Chemical Co., Ltd, in Shanghai, China and the production base, Jiangsu Zhongneng Chemical Technology Co., Ltd, in Lianyungang, China.

Devoting to high-end research and development of synthetic heat transfer fluids, Schultz Canada Chemicals combines the power of science and technology for innovation to extract value from the interaction of functional chemicals. With the extension of its product chain using renewable material structures, the trend of the Schultz high-value products to substitute similar products is recognized by end users worldwide. Our goal is to help reduce the processing cost and increase the advantage for our customers.

With the rapid expansion of global market, our sales network has spread to 8 countries and regions including Europe, North America and Asia. Quality, safety and environmental sustainability are the main elements of the vision of our products. The family of SCHULTZ® synthetic heat transfer fluids and DYNOMA® functional chemicals offers a wide range of options, making it easy to find the right product that helps you meet your application.

SCHULTZ® PRODUCT



360° COMPREHENSIVE TECHNOLOGY SERVICE

Schultz Canada Chemicals Ltd provides the 360° comprehensive full life cycle service model.

1 System Support Advices: Provide advices of new system design, old system energy saving reconstruction, fluid flush, daily maintenance and system debugging.

2 Fluid Recommendation: Provide system economical assessment and fluid recommendation based on customers applications.

3 World-leading Testing System: The first domestic company equipped with the thermal stability tester.

4 Sample Analysis: Services including sample analysis, accident analysis and suggestions are provided with the professionalism and sincerity.



5 Quick Response: Team headed by over 30 years of experience engineers will solve any problems occurring in customer fluid applications.

6 Logistics & Inventory: The strong warehouse logistics and safety inventory satisfy customers emergency supply request.

SCHULTZ® PRODUCT INTRODUCTION



SCHULTZ® S750 is the most popular and widely used high temperature synthetic liquid phase heat transfer fluid around the world. It provides long-lasting and excellent performance to systems with operation temperature range of -7°C ~ 350°C. SCHULTZ® S750

has already passed the 350°C type test conducted by national authority. It will improve your system with higher efficiency and long-lasting reliable operation. SCHULTZ® S750 is the same product as Therminol 66 and can be mixed together in any ratio.



PRODUCT FEATURES



Remarkable Thermal Stability

SCHULTZ® S750 has the highest operation temperature among various kinds of liquid phase fluids. The remarkable thermal stability of SCHULTZ® S750 is derived from its high quality raw material which is generated under 750°C.

Non-Corrosiveness

SCHULTZ® S750 has non-corrosiveness to general industrial equipments built by iron or nonferrous metals.

High Reliability

SCHULTZ® S750 is the best choice for systems with operation temperature above 310°C due to its excellent properties of super long service life and low pressure with high temperature.

Anti-coking Capability

SCHULTZ® S750 has strong anti-coking capability to against generating solid particles. Most of its degraded products are low molecular substances which are difficult to produce polymers, improving the reliability of system operation.

TYPICAL DATA



Appearance	Light Yellow Transparent Liquid
Component	Modified Terphenyl
Flash Point (Open Cup) / °C	199
Flash Point (Closed Cup) / °C	175
Autoignition Temperature / °C	382
Pour Point / °C	-24
Density (20°C) / (kg/m³)	1017
Acid Number(KOH) / (mg/g)	0.01
Carbon Residue / %	0.01
Moisture Content / (mg/kg)	80
Distillation Range: 2% / °C	343
Kinematic Viscosity / (mm²/s) 40°C	29
Kinematic Viscosity / (mm²/s) 100°C	4
Average Molecular Weight	252
Coefficient of Thermal Expansion(200°C) / °C	0.000819
Pumpability / °C 2000 mm²/s	-3
Pumpability / °C 300 mm²/s	11
Pseudocritical Temperature / °C	569
Pseudocritical Pressure / bar	24
Pseudocritical Density / (kg/m³)	317
Optimum Use Range / °C	-7 ~ 350
Maximum Bulk Temperature / °C	350
Maximum Film Temperature / °C	380

Note: The above data is based on experimental samples and not all the products are the same. The above data is not used as business indicators.

Physical Properties of SCHULTZ® S750



Temperature		Density		Thermal Conductivity		Specific Heat		Viscosity		Vapor Pressure	
°C	°F	kg/m³	lb/ft³	W/m·K	Btu/ft·hr·°F	kJ/kg·K	Btu/lb·°F	mm²/s	mPa·s	kPa	psia
-7	19	1027	64.1	0.1239	0.0718	1.470	0.351	4050	4160		
0	32	1020	63.7	0.1230	0.0713	1.495	0.357	1299	1325		
50	122	988	61.7	0.1185	0.0685	1.663	0.397	17.65	17.44		
100	212	955	59.6	0.1141	0.0659	1.836	0.438	3.80	3.63	0.059	0.008
150	302	921	57.5	0.1098	0.0635	2.015	0.481	1.65	1.52	0.382	0.055
200	392	882	55.1	0.1054	0.0609	2.200	0.525	0.94	0.83	2.540	0.368
250	482	847	52.9	0.1010	0.0584	2.392	0.571	0.66	0.55	8.980	1.302
300	572	806	50.3	0.0966	0.0558	2.590	0.618	0.51	0.41	33.73	4.891
350	662	767	47.9	0.0922	0.0533	2.795	0.667	0.42	0.32	84.04	12.19

PRODUCT APPLICATION

SCHULTZ® S750 is widely used in following fields due to its excellent properties:



Chemical Fiber and Polyester

SCHULTZ® S750 is the first choice for a lot of chemical fiber and polyester manufacturers as their systems usually require operation temperature above 300°C. The excellent thermal stability of SCHULTZ® S750 completely satisfies their heating requirements.



Oil and Natural Gas

SCHULTZ® S750 is used to separate light hydrocarbon and heat regenerated gas in high temperature systems. A lot of users choose SCHULTZ® S750 based on its outstanding properties.



Pharmaceutical Industry

SCHULTZ® S750 not only satisfies the demand of accurate temperature control also meets the requirement of cleanliness and nontoxic in pharmaceutical industry. SCHULTZ® S750 is used in many processes including synthetic reaction, rectification and concentration, fusion, condensation and extraction.



Chemical Industry

SCHULTZ® S750 plays several important roles in chemical industrial production including the heating and cooling technologies of organic silicone, polycrystalline silicon, fluorine chemicals and fine chemical engineering.



Coal Industry

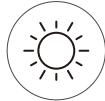
Many processes in coal chemical industry, like crude benzene hydrogenation and crude anthracene purification, require operation temperature of 300°C ~ 350°C and SCHULTZ® S750 can completely satisfies the high temperature requirement due to its super thermal stability.



Plastic and Rubber Processing

SCHULTZ® S750 supplies heat to hot press, extension, extrusion and sulfide forming in plastic and rubber processing, effectively decreasing production costs and energy consumption.

SCHULTZ® S750 is also used in following fields:



Concentrated Solar Power



Bio-fuel Production



Food Processing



Sea Water Desalination



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