



# Shell Immersion Cooling Fluid S3 X

Shell Immersion Cooling Fluid S3 X is a stabilized hydrocarbon fluid based on Shell Gas-to-Liquid Technology (GTL).

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- Shell Immersion Cooling Fluid S3 X is a synthetic, single-phase immersion cooling fluid designed for the needs of high-performance computing, edge computing and blockchain applications.
- The product help to reduce energy costs and emissions used for immersed-cooling of computers. It offers high cooling efficiency, flow behavior and excellent thermodynamic properties that reduces energy consumption.

- Shell Immersion Cooling Fluid S3 X application is environment agnostic. The product is safe and easy to handle, contributes to a safer working environment. It is suitable for use with almost all computer components with good material compatibility it comes into contact with.

### Main Applications

- Immersion cooling for data center, high-performance computing, edge computing and blockchain applications.

### Typical Physical Characteristics

Properties			Method	Shell Immersion Cooling Fluid S3 X
Colour (Saybolt)			ASTM D156	>+30
Density	@15°C	kg/m <sup>3</sup>	ASTM D4052	808
Flash Point		°C	ASTM D92	198
Pour Point		°C	ASTM D97	-42
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	9.9
Kinematic Viscosity	@0°C	mm <sup>2</sup> /s	ASTM D7042	52.3
Neutralisation Value		mg KOH/g	IEC 62021-1	<0.01

These characteristics are typical of the research product, variations in these characteristics may occur.

### Health, Safety & Environment

#### • Health and Safety

Shell Immersion Cooling Fluid S3 X is unlikely to present any significant health or safety hazard when properly used in the recommended applications and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with new and used fluid. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your Shell representative.

#### • Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.