

# EGEN DCC RANGE

EGEN DCC is the new generation of renewable, high-performance, single phase dielectric fluids for immersion cooling of electronic components in data centers. Their low viscosity and high thermal properties optimize the cooling of electronic boards like CPUs, GPUs, memory (RAM) and storage solutions (NVME, SSD), while preserving signal integrity thanks to their excellent dielectric properties. Their high flash points protect the staff as well as the machinery and their halogen-free formula made from renewable raw materials limit the carbon footprint without compromising on performance.

EGEN DCC fluids are corrosion resistant, oxidation resistant and are stable in high temperatures environments providing long-lasting performance.

## TYPICAL VALUES

Properties		Method	EGEN DCC 100R5	EGEN DCC 100R8
Viscosity (cst)	40°C	ASTM D7042	5,4	8,1
	100°C		1,8	2,5
Density (g.cm-3)	20°C	ASTM D4052	0,792	0,801
Flash point (°C)	Closed cup	ASTM D93	150	159
Heat capacity (J.kg-1.K-1)	40°C	ASTM D7896-19	2240	2240
Thermal conductivity (W.m-1.K-1)	40°C	ASTM D7896-19	0,137	0,140
Dielectric constant	40°C	IEC 60247	2,06	2,07
Volume resistivity (GOhm.m)	40°C	IEC 60247	50	50
Breakdown voltage (kV)	20°C	IEC 60156	25	25

## FEATURES

Product	EGEN DCC 100R5	EGEN DCC 100R8
Standout Features	<ul style="list-style-type: none"> <li>• Renewable-based</li> <li>• Readily biodegradable (OECD 301B)</li> <li>• Better pumpability</li> </ul>	<ul style="list-style-type: none"> <li>• Renewable-based</li> <li>• High flashpoint</li> <li>• OCP compatible</li> <li>• Readily biodegradable (OECD 301B)</li> </ul>

## MATERIAL COMPATIBILITY

This information represents a trend based on compatibility tests carried out to date and taking into account general knowledge of chemical compatibilities. We recommend that you carry out compatibility tests in your laboratory, as the compatibility of a material with a fluid may vary from one material supplier to another.

Material	Compatibility
<b>Seals / O-rings / Gaskets</b>	
NBR (Nitrile rubber)	Acceptable
HNBR (Hydrogenated nitrile rubber)	Acceptable
AEM	Acceptable
ACM	Case-by-case
FKM (ex: Viton®)	Acceptable
Silicone	Not acceptable
EPDM	Not acceptable
Neoprene (CR)	Not acceptable
Natural rubber	Not acceptable
Polyurethane (PUR, TPU)	Acceptable
SBR	Not acceptable
<b>Cable</b>	
Polyurethane (PUR, TPU)	Acceptable
PVC	Case-by-case
<b>Hose / Tube / Durite</b>	
Silicone	Not acceptable
Fluorinated polymer (PTFE, FKM, FEP)	Acceptable
Polyurethane (PUR, TPU)	Acceptable
<b>Adhesive / Thermal paste</b>	
Silicone	Acceptable
Acrylic	Acceptable
Cyanoacrylate	Acceptable
Epoxy	Acceptable
Polyurethane	Acceptable
Indium	Acceptable
Silicone thermal paste	Case-by-case
<b>Others</b>	
Polyimide (PI) (ex: Kapton®)	Acceptable
Polycarbonate (PC)	Acceptable
PEHD	Acceptable
Polyamide (PA) (ex : PA66, PA12, Nylon®)	Acceptable

## PRECAUTIONS

- Read the safety data sheet and take account of the recommendations given.
- Store indoors in a dry place. Recommended storage temperature: between 20°C and 40°C.
- Close the container immediately after use if any product remains.
- Do not insert wet or dirty tools into the product or pour used product back into the container
- Check that the product is clear before use.
- The fluid must be used in a clean system.