



Previous Name: **Shell Oil 4655 Dried**

Shell Diala *X-Ray Oil* Dried ***Inhibited Electrical Insulating Oil***

- **RELIABLE PERFORMANCE**

Shell Diala X-Ray Oil Dried is an inhibited insulating oil for the use in X-ray equipment. It is manufactured from specially refined mineral oils. Shell Diala X-Ray Oil Dried is dried to achieve a higher breakdown voltage than required by industry norms.

Applications

- ***X-Ray and other Medical Equipment***

Shell Diala X-Ray Oil Dried has been developed for the use in X-Ray equipment for use in medical and other general applications such as instrument controls and scanners.

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Performance Features and Advantages

- ***Extended oil life***

Shell Diala X-Ray Oil Dried is a fully inhibited oil giving outstanding oxidation performance and an extended oil life.

- ***Equipment protection***

Shell Diala X-Ray Oil Dried is non-corrosive towards copper, without the need for passivation.

- ***System efficiency***

Shell Diala X-Ray Oil Dried has been designed to offer high resistance to the specific challenge of high energy x-ray radiation

Storage precautions

The critical electrical properties of Shell Diala X-Ray Oil Dried are easily compromised by trace contamination with foreign material. Typically encountered contaminants include moisture, particles, fibres and surfactants. Therefore, it is imperative that electrical insulating oils be kept clean and dry.

It is strongly recommended that storage containers be dedicated for electrical service and include air-tight seals. It is further recommended that electrical insulating oils be stored indoors in climate-controlled environments.

Health and Safety

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

Shell Diala X-Ray Oil Dried is free from polychlorinated biphenyls (PCB).

Protect the environment

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

**Typical Characteristics**

Property	Units	Method	Shell Diala X-Ray Oil Dried
Appearance		IEC 60296	complies
Density at 15°C	kg/m ³	ISO 3675	841
Kinematic viscosity at 20°C	mm ² /s	ISO 3104	10,7
Flashpoint P.M.	°C	ISO 2719	137
Pourpoint	°C	ISO 3016	-9
Neutralisation value	mg KOH/g	IEC 62021-1	<0,03
Breakdown voltage			
Untreated			
After treatment	kV	IEC 60156	>60 >70
Dielectric dissipation factor at 90°C		IEC 60247	0,001
Oxidation stability (164 h/120°C)		IEC 61125C	
Total acidity value	mg KOH/g		0,03
Sludge content	%m		<0,01
Dielectric dissipation factor at 90°C			<0,05

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.