

Shell Ensis Fluids

Corrosion preventative fluids



Shell Ensis Fluids are corrosion preventatives for application to surfaces likely to corrode, either in storage or in use. They are blends of selected rust prevention materials dissolved in a solvent for ease of application. On application the solvent evaporates leaving a protective coating.

Shell Ensis Fluids suppress the corrosive action of fingerprints.

Application

Shell Ensis Fluids can be applied by dipping, brushing or spraying

Film Removal

Protective coatings may be removed by using conventional degreasing methods

Shell Ensis Fluid C

A dewatering fluid (below 0.1 micron) which leaves the metal surface dry and essentially free from any protective film. It has a low viscosity which imparts a high penetrating power. It is non-emulsifying and maintains its dewatering capability even after repeated contact with water.

It is used for the treatment of components which will be immediately processed further and require a clean dry surface

Shell Ensis Fluid D

A very thin, soft protective film (ca 0.2 microns). The dewatering action is not degraded by repeated contact with water. Shell Ensis Fluid D is ideal for use as an interstage dewatering fluid, where components, after dewatering, may be subjected to short term indoor storage.

Protection for up to four weeks under indoor storage.

To remove film use an aqueous alkaline cleaner.

Shell Ensis Fluid E

An oily, non-drying film (ca 3 microns). A dewatering fluid with good penetrating power used for finely machined parts or intricate items.

Protection for up to 1 year indoors.

To remove film use an aqueous alkaline cleaner.

Shell Ensis Fluid F

A soft Vaseline film (ca 1 micron). Good dewatering properties. Provides excellent

protection of external metal surfaces of machines, sub assemblies or machined components.

Protection for up to 6 months indoors, or for up to 3 months under shelter outdoors

To remove film use an aqueous alkaline cleaner or hydrocarbon solvent

Shell Ensis Fluid G

A soft, self-healing, Vaseline film (ca 10 microns) A grade with dewatering ability, it is excellent for the protection of spare parts, engine components, extruded or machined surfaces, pipes, machinery, etc.

Long term protection (18 months to two years) indoor protection and medium term (1 year) protection against corrosion of metal surfaces stored under cover outdoors.

To remove film use an aqueous alkaline cleaner or hydrocarbon solvent

Shell Ensis Fluid H

A thick, hard wax fluid (ca 20 microns).

Shell Ensis Fluid H is a robust film designed to protect parts and machinery subjected to handling during storage.

Although specifically designed for outdoor applications (6 -12 months - under cover) it may be used for indoor protection (more than 2 years)

To remove film use hydrocarbon solvent

Shell Ensis Fluid K

A thick, hard-wax fluid. (ca 35 microns) The thick, hard nature of the film imparts considerable resistance to handling and abrasion. It is suitable for the protection of all kinds of machinery, e.g. agricultural, automotive, railway, machine rolls, machine tools, castings, vehicle box sections and structural steel work.

Long term protection either outdoors (10 -18 months) or indoors (more than 2 years).

To remove film use a hydrocarbon solvent.

Health & Safety

Shell Ensis Fluids are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

Typical Physical Characteristics

Shell Ensis	Fluid C	Fluid D	Fluid E	Fluid F	Fluid G	Fluid H	Fluid K
Type	Dewatering fluid	Dewatering fluid - Solvent deposited					
Appearance	Clear	Clear	Clear	Clear	Cloudy	Cloudy	Cloudy
Colour		Yellowish	Yellowish	Light brown	Brown	Dark brown	Dark brown
Density @ 15°C kg/l	0.788	0.840	0.830	0.790	0.841	0.870	0.860
Film thickness microns	below 0.1	0.2	3	1	10	20	35
Film Characteristics		Very thin soft oil - Vaseline	Thin oily film, non-drying	Thin, soft Vaseline	Thick, soft Vaseline	Thick hard wax	Thick, hard wax
Protection							
Indoor		4 weeks	1 year	6 months	18 months	> 2 years	> 2 years
Outdoors (covered)		-	-	3 months	1 year	6 - 12 months	18 months
Outdoors (open)		-	-	-	-	-	10 months
Drying time approx. hour		Non-drying	1	0.5	2	2	4