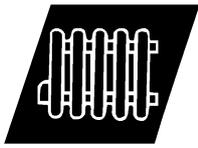


SERIOLA ETA



Heat transfer fluid



Mineral based heat transfer fluid.

APPLICATIONS

- Heating of domestic and industrial premises,
- Production of steam and hot water,
- Air conditioning,
- Temperature control for storage bins,
- Heating by heat exchange,
- All types of systems (piping, pumps, etc...),
- Heating of heat treatment baths, autoclaves, reaction vessels, furnaces, dies, tunnel driers, injection moulding machines, etc...,
- Manufacturing processes (cement works, paper mills, timber industry, etc...).

SPECIFICATIONS

International standards

- ISO 6743/12 class L family QC
- **SERIOLA ETA 32** is approved by the french health Direction for drinking water thermal treatment.

ADVANTAGES

Long life

Low circuit deposits formation,
slow warming time

- Compared to conventional fluids **SERIOLA ETA** has an excellent resistance to thermal cracking.
- Low viscosity of **SERIOLA ETA 32** allows fast rise in flow during starting periods.
- Static and dynamic deterioration tests have shown that at test temperatures exceeding 340 °C, the following results were obtained using **SERIOLA ETA** in comparison with other heat transfer mediums available:
 - weight of deposits was 10 to 20 times lower,
 - rate of production of light fractions was cut by half.The joint effect of these advantages was that the life of the fluid itself and that of the installation were increased.

TYPICAL CHARACTERISTICS	METHODS	UNITS	SERIOLA ETA 100	
			32	100
Density at 20 °C	ISO 3675	kg/m ³	862	878
Kinematic viscosity at 40 °C	ISO 3104	mm ² /s	32	95
Kinematic viscosity at 100 °C	ISO 3104	mm ² /s	5.0	10.0
Flash point OC	ISO 2592	°C	230	260
Fire point	ISO 2592	°C	260	290
Pour point	ISO 3016	°C	- 15	- 9
Acid value	ISO 6618	mgKOH/g	0.01	0.02
Conradson carbon residue	ISO 6615	% weight	0.1	0.2
Bulk temperature limit*	-	°C	310	310
Limit temperature of oil film*	-	°C	330	350

Above characteristics are mean values given as an information.

* Without air contact.

TOTAL LUBRIFIANTS
Industrie & Spécialités
14-09-2012 (supersedes 03-07-2012)
SERIOLA ETA
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com