

## Technical data Sheet: Esters for Synthetic Lubricants

Shepard SA offers additives for synthetic lubricating fluids, namely:

- **Shephaster-9260** (used for ISO VG 46 fluids)
- **Shephaster -1192** (used for ISO VG 68 fluids)

### Key Highlights:

- These SPAKESTERS possess the **required viscosity index**, eliminating the need for additional viscosity index improvers.
- Post-reaction, the esters undergo **advanced filtration**, ensuring:
  - Clean products
  - Absence of foreign particles
  - Reduced filtration time for customers
  - Increased output
- **Low moisture level** enhances performance in specific applications.
- Made from **raw materials of vegetable origin**.

### Specifications:

Parameter	Method	Shephaster -9260	Shephaster -1192
Acid Value (max)	–	1.5	1.5
Appearance	Visual	Yellow to amber clear liquid	Yellow to amber clear liquid
Colour (Gardner)	Lovibond 2000	8 Max	8 Max
Density (g/cm <sup>3</sup> )	–	0.90–0.93	0.90–0.93
Hydroxyl Value	–	20 Max	20 Max
Saponification Value	–	175–187	180–196
Moisture Content	Karl Fischer	0.1 Max	0.1 Max
Viscosity Index	ASTM D 2270	Approx. 180–190	Approx. 180–190
Viscosity @ 40°C	ASTM D 445	40–50 cst	61–72 cst
Viscosity @ 100°C	ASTM D 445	9.5 cst (Typical)	12 cst (Typical)
Iodine Value	–	75–95	75–95
Pour Point (°C)	ASTM D 97	-30 Max	-24
Flash Point (°C)	ASTM D 92	300 Min	300 Min
Foaming (cc/cc)	ASTM D 892	30/0 Max	30/0 Max

### Environmental Advantage:

Lubricants used near water (e.g., industrial greases, hydraulic fluids, or oil) require high biodegradability. **Shephaster** esters degrade **>90% within three weeks**, surpassing the **80% threshold** for “readily biodegradable” classification.

### Storage:

- Excellent storage stability under normal conditions
- No increase in acid value over time

### Packing:

- Available in **190 Kg / 210 Kg** drums
- **ISO TANK** deliveries available in select regions (e.g., Europe, Southeast Asia)

Let me know if you'd like this in a Word doc, table format, or customized summary.