



BIODEGRADABLE SYNTHETIC OIL FOR 2-STROKE OUTBOARD ENGINES

NATO CODE O-1177 – DCSEA 242/C – NMMA TC-W3 – API TC+

DESCRIPTION

NYCOLUBE 210 is a high performance solvent free synthetic 2-stroke engine oil based on a complex ester and a package of ashless additives improving its lubricity and anti-oxidation resistance.



APPLICATION

NYCOLUBE 210 is intended for the lubrication of 2-stroke gasoline engines operating with unleaded regular fuels. It has to be used at the manufacturer's recommended fuel/oil ratio (up to 1/100)

NYCOLUBE 210 has been qualified by the National Marine Manufacturers Association (NMMA) according to TC-W3 standard (approval n° RL 91506H).

Although NYCOLUBE 210 has been developed for water-cooled 2-stroke engine, it can be used in air-cooled 2-stroke engine as well, meeting the requirements of API TC+ standard. It has successfully passed the Husqvarna 266 engine test.

ADVANTAGES

- **Excellent lubricity and detergency properties (engine cleanliness)**
- **Prolongs engine life**
- **Biodegradable**
- **Ashless**
- **Universal (non-outboard and outboard engines)**

The values above are typical values. They do not constitute any contractual commitment.
Sales specifications are available on request. The present technical data sheet replaces all the previous editions.





| Characteristic | Unit | Typical Result | Test method |
|---|--------------------|--|--------------------|
| - Appearance | - | clear, bright and free from sediments and other impurities | Visual examination |
| - Density at 20°C | kg/dm ³ | 0.932 | ISO 12185 |
| - Flash point, COC | °C | 258 | ISO 2592 |
| - Pour point | °C | - 39 | ISO 3016 |
| - Total acid number | mg KOH/g | 0.12 | ISO 6619 |
| - TBN | mg KOH/g | 3.83 | ISO 3771 |
| - Kinematic viscosity at 100°C 40°C | mm ² /s | 8.2 47 | ISO 3104 |
| - Dynamic viscosity at - 25°C | mPa.s | 4170 | ASTM D 2983 |
| - Sulphated ash - Mass fraction | % | 0.01 | ISO 3987 |
| - Biodegradability | % | 61.9 | OECD 301B |

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