

## Ultra 2-Cycle Oil

### 2-Cycle Oil For Air Cooled Engines

**Ultra 2-Cycle Oil** is a general-purpose low ash two-cycle oil formulated for a wide variety of air-cooled two-stroke engines.

**Ultra 2-Cycle Oil** is recommended for use in air cooled engines, such as lawn mowers, weed trimmers, motorcycles, chain saws, snow-blowers, generators and other small engines where there is a requirement for oil to fuel ratios of 50:1. It can be used for pre-mix or lube injection systems.

**Ultra 2-Cycle Oil** has been formulated to respond to the increased demands of equipment manufacturers and to exceed the requirements of API TC service classification for high performance two-cycle engines. It provides enhanced lubricity, minimizes piston deposits, and reduces spark plug fouling and pre-ignition. **Ultra 2-Cycle** also exceeds the SAE Grade 4 requirements, which ensures easy mixing and the ability to be used in injection systems at temperatures down to -40°C.

#### Performance Benefits

- **Excellent Piston Cleanliness** - contains detergents which keep pistons clean and free from varnish and carbon deposits which can lead to ring sticking, inefficient engine performance and power loss.
- **Reduced Spark Plug Fouling & Pre-Ignition** - contains highly effective dispersants, which minimize combustion chamber deposits, which can cause spark plug fouling. "Hot spot" deposits can cause pre-ignition when they ignite the fuel/oil mixture before the spark plug fires.

- **Outstanding Lubrication Protection** - designed to perform in today's modern engines operating under high temperatures and speeds. It provides outstanding lubricant film protection against scuffing and scoring of piston rings and cylinders.
- **Excellent Rust Protection** - protects against rusting of critical engine components during operation and continues to work during off-season storage.
- **Easy Product Identification** - contains a blue dye as a safety check to identify the fuel/oil mixture.
- **Designed For Use In Pre-Mix or Oil Injection Systems**
- **Superb Blending & Low Temperature Fluidity Properties**

#### What is the right oil to use?

Air cooled two-cycle engines that operate at high temperatures and under severe conditions (i.e. chain saw applications) require a low ash formulation to control deposit formations

Water-cooled engines operate at lower temperatures and using a low ash formulation can cause ash deposits to form around the piston and cause ring sticking. These engines usually require the use of a TC-W3 product which is an ashless formulation.

Therefore, it is advisable to consult your manufacturer's maintenance or owner's manual for the proper recommendation for oil, as well as the recommended grade of gasoline.

## Typical Properties

Properties	Ultra 2-Cycle
API Rating	TC
SAE Fluid / Miscibility Grade	FM 4
Colour	Blue
Density @ 15 °C, kg/L	0.8640
Pour Point, °C	-47
Flash Point, °C, COC	110
Viscosity, cSt @ 40 °C	21.2
cSt @ 100 °C	4.53
Sulphated Ash, % mass	0.06

The values quoted above are typical of normal production and they do not constitute a specification

## Product Availability

Package	Ultra 2-Cycle
1-L Bottle	•
500-ml Bottle	•

*Due to continuing research and development, the information contained herein is subject to change without notification.*

## Mixing Table

Gasoline Liters	16:1	20:1	24:1	32:1	40:1	50:1
5	310	250	210	155	125	100
10	625	500	420	310	250	200
15	940	750	625	470	375	300
20	1250	1000	830	625	500	400

Oil quantities are listed in milliliters. For example; a 16:1 gasoline to oil mixture requires 310-ml of oil to be added to 5 liters of gasoline fuel.

Proper mixing is essential to ensure the correct gasoline to oil ratio is delivered to the engine. The following is recommended to ensure that complete and proper mixing occurs.

- Mix gasoline and oil before adding to the fuel tank
- Add the oil to the empty container, then add gasoline
- After adding gasoline, agitate the container thoroughly for proper mixing