



Omstar DX1® Fuel Additive for Diesel, Gasoline and Biofuel Engines (formerly D-1280X)

Description:

Short-chain, and long-chain synthetic esters combined with a petroleum distillate carrier.

Function:

Improves combustion in all hydrocarbon fuels; increases mileage; reduces friction; reduces harmful emissions (SO₂, NO_x, CO, Hydrocarbons); cleans injectors, valves, and exhaust system; biodegradable.

Benefits:

- Increases fuel economy
- Significantly reduces SO₂, NO_x, CO, and hydrocarbons/particulates
- Increases Cetane by 4-5%; reduces viscosity for better cold starts
- Fully combusts (99.99% combustible), no ash or residue
- Cleans injectors and valves without decreasing engine lubricity
- Lubricates upper cylinders & valves through molecular chemisorption called "Iron soap"; extends maintenance intervals
- Adds lubricity to ULSD (Ultra Low sulfur Diesel) reducing wear of engine components - helps engines run cooler and more efficiently
- US Patent #4,920,691 states: 29.2% average exhaust opacity (smoke) reduction after two months of additive use, 66.7% reduction after 9 months, and 89% reduction after 1 year in Los Angeles Airport Shuttle Bus Test - 4,000,000 miles over 4 years.
- Some gasoline engines that use premium can use regular with DX1
- Environmentally friendly, biodegradable, non-toxic

Hazard Identification:

Principal Hazards: Combustible liquid, prolonged or repeated skin contact may cause dermatitis, see section 11 on the DX1 Safety Data Sheet (was MSDS) for complete health hazard information.

Threshold Limits: The PEL (OSHA) and the TLV (ACGIH) is 5 mg/m³ for oil mists.

Primary Routes of Exposure: Non-Hazardous

First Aid Measures:

ORAL: Do not induce vomiting. If conscious, give 2 glasses of water. Get medical attention.

EYES: Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

SKIN: Wash immediately with soap and water. Remove soiled clothing. Get medical attention if irritation develops. Launder contaminated clothing.

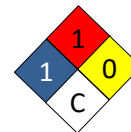
INHALATION: Remove exposed person to fresh air. If breathing is labored, administer oxygen and obtain immediate medical attention. If irritation persists or if toxic symptoms are observed, get medical attention.

PRODUCT

Omstar DX1® (formerly D-1280X)

Material Safety Data Code
MSDS No. 21027Omstar-1

NFPA



HMIS (I)	
Health	1
Flammability	1
Reactivity	0
Personal PE	C





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Properties and Compounds:

Appearance:	Yellow Oil Liquid	Viscosity	D4684 (Oil meeting J2362)	
Density 60° F	ASTM-D287 0.8882 g/cm ³		<u>10W-30 Oil</u>	<u>Oil + Additive</u>
Calorific power	ASTM-D240 38,438.24 kj/kg	@ -20° C	3200	2400 mPa/s
Cloud Point	ASTM-D2500 -5° C/23° F	@ -25° C	5800	4500 mPa/s
Sulfur (%P, S)	ASTM-D129 < 0.05	Viscosity Index	D2270	
Boiling Point	ASTM-D93 > 110° C/230° F		159	152
Flash Point	< 170° C/338° F	Flash Point in oil (D92)	220	218 °C
Pour Point	ASTM-D97 -9° C/16° F	Pour Point in oil (D97)	-36	-33 °C
Humidity (%V)	ASTM-D95 < 0.01			
Total Ash (%P)	ASTM-D482 < 0.001 or 99.999% free of ashes			

Metals Spectrograph:

Iron	0.60 ppm	Calcium	0.21 ppm
Silicon	0.22 ppm	Aluminum	Tr < 0.01
Magnesium	0.016 ppm	Vanadium	0.069 ppm
Copper	0.017 ppm	Other Elements	Nil
Nickel	0.044 ppm	Loss on Ignition (%P)	ASTM-D482 99.99976%

Additive Application:

Fuel: 30ml of Omstar DX1 for each 40 liters of fuel (or 1oz DX1 to 10 gallons of fuel) (1:1280, Gasoline or Diesel).

Oil: 30ml of Omstar DX1 for every 1 liter (or 1 quart) of motor oil (mineral or synthetic). Recommended add DX1 every oil service.

First Application in fuel (not oil): Recommend a shock treatment of 150ml Omstar DX1 for each 40 liters of fuel (Gasoline or Diesel, 1oz : 2 gallons) for the first 1 or 2 refuelings. This will produce "Iron Soap" more quickly, and clean injectors and the exhaust system more thoroughly.

Shipping:

Containers: T11/T14 ISO containers: 20,000-27,000 liters; Collapsible bladders (when installed in a standard 20' ISO container): 14,000-24,000 liters; 55 gallon drums; and 20 ounce and 4 ounce bottles. Do not use low-density polyethylene containers, only high-density polyethylene (HDPE), recycling code "2".

Transportation Information: Shipping Classification: 65 Non-Hazardous; DOT Shipping Name: Oil, N.O.S; UN/NA Number: NA 1270.