

DURASOIL® TECHNICAL DATA SHEET

DESCRIPTION

Durasoil Ultra-Pure Synthetic Dust Control Fluid

Durasoil is a 100% Non-Petroleum Synthetic Fluid comprised of a complex mixture of synthetic linear, branched, and cyclic alkanes derived from natural gas through a Gas-to-Liquid (GTL) process.

APPLICATION

- Abate Dust
- Air Quality Control
- Compaction Aid
- Control Desertification
- Control Dust
- Control Particulates
- Controlling Dust
- Desertification Control
- Desertification Prevention
- Dune stabilization
- Dune stabilizer
- Dust Abatement
- Dust Binder
- Dust Control
- Dust Control Agent
- Dust Control Material
- Dust Control Product
- Dust Elimination
- Dust Inhibitor
- Dust Mitigation
- Dust Palliative
- Dust Pollution Control
- Dust Pollution Prevention
- Dust Prevention
- Dust Reduction
- Dust Retardant
- Dust Stabilization
- Dust Stabilizer
- Dust Suppressant
- Dust Suppression
- Eliminate Dust
- Fines Preservation
- Fugitive Dust Control
- Inhibit Dust
- Mitigate Dust
- Particulate Control
- Pm10 Control
- Pm2.5 Control
- Prevent Dust
- Reduce Dust
- Retard Dust
- Soil Additive
- Soil Amendment
- Stabilize Dunes
- Stabilize Dust
- Stop Dust
- Suppress Dust
- Wind Erosion Control

REFERENCE NUMBERS

DUNS	131946159
CAGE Code	3FTH5
GSA Contract	GS-07F-5364P
NSN	6850-01-542-5354 - 275-gallon (1,041 Liter) Intermediate Bulk Container (IBC) Tote 6850-01-542-3715 - 55-gallon (208 Liter) Drum
Product Code	DS26G
Related Patents	U.S. Patent No. 8,968,592 U.S. Patent No. 9,068,106 U.S. Patent No. 9,434,881 Additional patents may be pending in the U.S. and elsewhere

STORAGE

- Keep the container tightly closed in a cool, well-ventilated place.
- Use properly labeled and closeable containers.
- Store at ambient temperature.

SAFETY

Durasoil is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from the manufacturer.

PROPERTIES		
Property	Result	Testing Standard
Active Ingredients	100%	CG-MS
Aniline Point	234 °F (112 °C)	ASTM D611
Appearance	Liquid at room temperature	
API Gravity (Digital Density Meter)	43.6	
Aromatic Hydrocarbons	0%	
Ash Content	<0.01% (None Detected)	ASTM D482
Auto Ignition Temperature	>605° F (>318° C)	
Binder Content	100%	CG-MS
Boiling Point	464 °F (240 °C)	ASTM D3321
Cloud Point	-22 °F (-30 °C)	ASTM D2500
Color	<1 (None. Colorless, clear, and bright)	ASTM D1500
Combustion Heat	18,879 BTU/lb. (44 MJ/kg) (10,488 cal/g)	ASTM D240
Conductivity	0 pS/m @ 73 °F (23 °C)	ASTM D2624
	NOT expected to be a static accumulator	
Density	6.7264 lb./gal (806 kg/m³) @ 59 °F (15 °C)	
Dielectric Strength	46 MV/m	ASTM D877
FLAMMABILITY (Liquids)	NOT classified as flammable but will burn	
Flash Point	394 °F (201 °C)	ASTM D92 COC
Flash Point	383 °F (195 °C)	ASTM D93 PMCC
Freeze Point	None Detected	ASTM D2386
Inactive Ingredients	0%	CG-MS
Naphthenics	None Detected	CG-MS
Nitrogen	0%	
Octanol/Water Partition Coefficient	>6 log Pow	
Odor	None, Odorless	
Oil Sheen	None. Oil sheen free	
Olefins	None Detected	CG-MS
Oxidation	None Detected	ASTM D7414
Pentane Insolubles	<0.01% (None Detected)	ASTM D893
pH	Not applicable. Not an aqueous solution	
Physical Form	Liquid, Synthetic Fluid	
Polycyclic Aromatics (PAH)	None Detected	
Pour Point	-60 °F (-51 °C)	ASTM D97
Refractive Index	1.45 @ 68 °F (20 °C)	ASTM D1218
Relative Density	0.808 @ 60 °F (16 °C)	ASTM D4052
Specific Gravity	0.808 @ 60 °F (16 °C)	ASTM D4052
Sulfur	0%	
Vapor Density	>5 (Air = 1)	
Vapor Pressure	<0.5 Pa @ 68 °F (20 °C) estimated	
Viscosity Index	106	ASTM D2270
Viscosity, Kinematic	9.81 cSt @ 104 °F (40 °C)	ASTM D445
	2.66 cSt @ 212 °F (100 °C)	
	18 cSt @ 68 °F (20 °C)	ISO 3104
Water Content	None Detected	ASTM D6304
Water Solubility	Insoluble	

PACKAGING

Image	Container Description	Maximum Volume	Dimensions (LxWxH)*	Weight (gross)*
	Drum	55 gal 208 L	24"x24"x36" 61x61x91 cm	400 lbs. 182 kgs
	IBC Totes	275 gal 1,041 L	40"x48"x46" 100x120x117 cm	2,025 lbs. 919 kgs
	Bulk Tankers	6,700 gal 25,362 L	Variable	45,091 lbs. 20,453 kgs
 53' Box Vans	104 Drums 26 Pallets	5,720 gal 24,605 L	Variable	42,510 lbs. 19,282 kgs
	22 IBC Totes	6,050 gal 22,902 L	Variable	44,550 lbs. 20,208 kgs
 48' Flatbeds	112 Drums 28 Pallets	6,160 gal 23,318 L	Variable	45,780 lbs. 20,766 kgs
	23 IBC Totes	6,325 gal 23,943 L	Variable	46,575 lbs. 21,126 kgs
 20' Ocean Containers	40 Drums 10 Pallets	2,200 gal 8,328 L	Variable	21,350 lbs. 9,684 kgs
	18 IBC Totes	4,950 gal 18,738 L	Variable	36,450 lbs. 16,534 kgs
	Bulk Railcars	23,000 gal 87,064 L	Variable	161,000 lbs. 73,028 kgs
	Bulk Jumbo Railcars	25,500 gal 96,528 L	Variable	178,500 lbs. 80,966 kgs

*Specifications are approximate

FEATURES AND BENEFITS			
 Colorless Crystal Clear Fluid	 Non-Hazardous & Non-Toxic	 Simple & Easy to Apply	 Human, Animal, Marine Life & Vegetation Safe
 Non-Corrosive & Safe for All Equipment	 Non-Flammable & Non-Volatile	 Odorless	 No Curing for Immediate Results
 Non-Slippery & Safe to Drive on Once Penetrated	 Oil Sheen Free	 Actively Re-workable & Self-Healing Performance	 Can be Applied in Freezing Conditions
 Non-Dissipating	 Polyolefin Free	 Carboxylic Acid & Fatty Acid Free	 Non-Tracking & Non-Transferable
 100% Ultra-Pure Active Ingredients	 Ultraviolet Ray Resistant	 Non-Regulated for Transportation	 Scientifically Formulated from Natural Gas
 Ecologically & Environmentally Safe	 PM10 & PM2.5 Compliant	 Cumulative Effect with Maintenance	 Self-Penetrating & Wetting Properties