



ORCHEX[®]

AGRICULTURAL SPRAY OILS

ORCHEX[®] Agricultural Spray Oils are a proven and safe weapon in combating a broad range of insects and diseases that impact crop production and profitability. Calumet's Orchest Agricultural Spray Oils are for *Manufacturing-Use Only* and may be used by formulators of an end-use product.

■ ASSURED SAFETY

Extensive toxicology testing shows that ORCHEX Agricultural Spray Oils, when used in approved applications, are inherently low in toxicity and present minimal risk to people, animals, crops and beneficial insects.

■ DEPENDABLE QUALITY

ORCHEX Agricultural Spray Oils are registered with the U.S. EPA and are manufactured under the most rigorous quality control standards.

■ DOES NOT PROMOTE RESISTANCE

When used in approved applications, insects cannot develop resistance to this method of pest control. ORCHEX Agricultural Spray Oils are particularly effective in combating scale insects and mites, eliminating them in various life stages by hypoxia or suffocation.

■ OPTIMAL MOLECULAR WEIGHT

Ensures low phytotoxicity to crops while maximizing pesticidal strength. Orchest's high paraffinicity ensures low phytotoxicity to crops while maximizing pesticidal strength and insect hypoxia.

■ LOW SURFACE TENSION

Maximizes spreading coverage, while enhancing attachment of pesticide to insect cuticle and plant surfaces.

■ LOW WATER SOLUBILITY

Provides resistance to rain wash-off, extending pesticide longevity and preventing seepage into soil.

ORCHEX 796 APPROVED CROP APPLICATIONS

TREE CROPS, NUT CROPS AND ROW CROPS

Almonds	Bananas	Cotton	Limes	Oranges - Pineapple	Pecans
Ambersweet Mandarins	Bushberries	Figs	Nectarines	Oranges - Valencia	Pistachios
Apples	Cherries	Grapefruit	Olives	Papaya	Plums
Apricots	Cocoa	Grapes	Oranges - Hamlin	Peaches	Prunes
Avocados	Coffee	Lemons	Oranges - Navel	Pears	Strawberries
					Walnuts

ROW CROPS – INERT INGREDIENT CLASSIFICATION

Beans	Cotton	Potatoes	Sorghum	Sugar Beets	Wheat
Corn	Peanuts	Rice	Soybeans	Sugar Cane	

VEGETABLES

Beans	Celery	Field Corn	Melons	Pumpkins	Sweet Corn
Cabbage	Cucumbers	Hops	Peppers	Squash	Tobacco
Cauliflower	Eggplant	Lettuce	Potatoes	Sugar Beets	Tomatoes

ORNAMENTAL AND SHADE TREES

Apple	Conifers	Flowering Cherry	Hawthorne	Magnolia	Oak
Birch	Dogwood	Flowering Peach	Holly	Maple	Pyracantha
					Sycamore

ORCHEX® AGRICULTURE SPRAY OIL TYPICAL PROPERTIES

PROPERTIES	METHOD	ORCHEX® 796	ORCHEX® 692	CALUMET™ DORMANT SPRAY 100
Viscosity, SUS @ 100 °F	D2161	74.7	68.5	99.6
Viscosity, SUS @ 210 °F	D2161	36.8	31.6	39.2
Pounds Per Gallon @ 60 °F	D1250	7.081	7.117	7.151
Flash Point, COC (°C/°F)	D92	198/388	188/371	202/395
Pour Point (°C/°F)	D97	-17/1	-30/-22	-15/5
Color, ASTM	D1500	L0.5	L0.5	-
Unulfonated Residue	D483	92.0	98.1	92.0
Distillation, 50% @ 10 mm	D1160	434.8	420.0	-
Distillation, 90%-10% @ 10 mm	D1160	62.2	67.1	-
Specific Gravity @ 60/60 °F	D1298	0.8505	0.8531	0.8589
FDA 21 CFR 178.3620 (c)	FDA	PASS	PASS	PASS
OMRI Listed	-	YES	YES	-
Neutralization Number (MG KOH/G)	D974	-	-	0.013

TECHNICAL ASSISTANCE

For product or technical questions, contact your Sales Representative or Calumet Product Support at (800) 437-3188 or email technical@calumet.com.

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Calumet's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. Typical values only represent the values one would expect if the property were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values are not based on a statistically relevant number of tests. The information in this document relates only to the named product. The user is solely responsible for all determination regarding any use and any process.



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