

MAJESTIC™ 813 FOOD GRADE PROCESS OIL

ISO Grades: 15, 22, 32, 46, 68, 100, 150, 220, 320, 460

All ingredients in **Majestic™ 813 Food Grade Process Oil** are listed substances generally recognized as safe (GRAS) or substances used in accordance with the provisions of a prior sanction or approval permitted under the rules of the U.S. Food and Drug Administration 21 CFR 178.3570 for lubricants with incidental food contact.

For ISO Grades 15, 22, 32, 46, 68 and 100, **Majestic™ 813 Food Grade Process Oil** also surpasses the current standards of the National Formulary (NF) and U.S. Pharmacopeia (USP) for use as 3H release agents under the following rules of the U.S. Food and Drug Administration:



- 21 CFR 172. 878 for safe use in food with multiple uses and individual limitations described in the statute
- 21 CFR 176.170, 176.180 & 176.210: Components of paper and paperboard
- 21 CFR 178.3620 for use as a component of nonfood articles intended for use in contact with food for human consumption
- 21 CFR 178.3740 for use as a plasticizer in polymeric substances
- 21 CFR 205.603 for synthetic substances allowed for use in organic livestock production
- 21 CFR 573.680 for use in animal feed

NSF Nonfood Compounds Registered: See Product Attribute Table

ISO 21469 Certification: See Product Attribute Table

TYPICAL APPLICATIONS INCLUDE:

Penetrating Oils (ISO 15 & 32)	Dust Suppression Oils	Textile Fiber Lubricants
Lubricity Agents	Crop Oils	Barrier Fluids
Mist Lubrication Systems	Dryer Release Agents	Carrier Oil for Chemical Processing
Paper Mill Slitter Knife Lubricants	Ink Additive	Beet/Cane Sugar Refining Oils
Extender for EDPM Rubber	Drip Oils	Autoclave Oils
Hydraulic Flushing Oil	Potable Water Well Drip Oils	Compressor Flushing Oil
Food Grade Emersion Oils	General Purpose Oils	Irrigation Drip Oilers
Waste Water Disposal Fluidizer Oil	Food Grade Spray Oils	Solvent Absorption Media

Note: Upon prolonged exposure to light and elevated temperature, fluid may experience color change and reduced oxidation stability. Store under controlled conditions to prevent degradation.

PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES				
ISO Grade	ASTM D2422	15	22	32	46	68
NSF NFC Category		H1, 3H	H1, 3H	H1, 3H	H1, 3H	H1, 3H
NSF NFC Registration Number		136668	153600	153601	153602	153603
ISO 21469 Certified		Y	Y	Y	Y	Y
Kinematic Viscosity, cSt @ 40°C	ASTM D445	15	22	32	46	68
Kinematic Viscosity, cSt @ 100°C	ASTM D445	3.5	4.8	5.6	6.8	8.8
Viscosity Index No.	ASTM D2270	105	105	105	105	105
Density, g/ml @ 15.5 °C	ASTM D1298	0.853	0.854	0.858	0.863	0.866
Density, lb/gal @ 60 °F	ASTM D1298	7.12	7.13	7.16	7.20	7.23
Pour Point, °F (°C)	ASTM D97	-6 (-21)	-4 (-20)	0 (-18)	-4 (-20)	7 (-14)
Flash Point, °F (°C)	ASTM D92	395 (201)	400 (204)	430 (221)	469 (243)	498 (259)
Fire Point, °F (°C)	ASTM D92	421 (216)	430 (221)	462 (239)	498 (259)	519 (271)
Aniline Point, °F (°C)	ASTM D661	214 (101)	220 (105)	230 (110)	230 (110)	240 (116)
Ramsbottom Carbon Residue, %	ASTM D524	0.03	0.03	0.03	0.03	0.03
Saturates, wt%	ASTM D2007	99.97	99.97	99.97	99.97	99.97
Nitrogen, ppm	ASTM D4629	<1	<1	<1	<1	<1
Sulfur, ppm	ASTM D5453	<1	<1	<1	<1	<1
Demulsibility, oil/water/emul (mL)	ASTM D1401	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Demulsibility, time (min)	ASTM D1401	1	1	5	5	10
Copper Corrosion, 3 hrs @ 100°C	ASTM D130	1a	1a	1a	1a	1a
Total Acid Number	ASTM D974	0.01	0.01	0.01	0.01	0.01
Saybolt Color, minimum	ASTM D6045	+30	+30	+30	+30	+30
PRODUCT ATTRIBUTE	TEST METHOD	TYPICAL PROPERTIES				
ISO Grade	ASTM D2422	100	150	220	320	460
NSF NFC Category		H1, 3H	H1	H1	H1	H1
NSF NFC Registration Number		153604	153619	153620	153621	--
ISO 21469 Certified		Y	N	N	Y	--
Kinematic Viscosity, cSt @ 40°C	ASTM D445	100	150	220	320	460
Kinematic Viscosity, cSt @ 100°C	ASTM D445	11.7	15.5	20.1	26	33.1
Viscosity Index No.	ASTM D2270	106	106	106	106	106
Density, g/ml @ 15.5 °C	ASTM D1298	0.870	0.873	0.876	0.878	0.879
Density, lb/gal @ 60 °F	ASTM D1298	7.26	7.29	7.31	7.33	7.34
Pour Point, °F (°C)	ASTM D97	10 (-12)	10 (-12)	14 (-10)	16 (-9)	16 (-9)
Flash Point, °F (°C)	ASTM D92	515 (268)	515 (268)	515 (268)	515 (268)	515 (268)
Fire Point, °F (°C)	ASTM D92	540 (282)	540 (282)	552 (289)	552 (289)	552 (289)
Aniline Point, °F (°C)	ASTM D661	255 (124)	--	--	--	--
Ramsbottom Carbon Residue, %	ASTM D524	0.05	0.05	0.05	0.05	0.05
Saturates, wt%	ASTM D2007	99.97	99.97	99.97	99.97	99.97
Nitrogen, ppm	ASTM D4629	<1	<1	<1	<1	<1
Sulfur, ppm	ASTM D5453	<1	<1	<1	<1	<1
Demulsibility, oil/water/emul (mL)	ASTM D1401	40-40-0	40-40-0	40-40-0	40-40-0	40-40-0
Demulsibility, time (min)	ASTM D1401	10	10	10	10	10
Copper Corrosion, 3 hrs @ 100°C	ASTM D130	1a	1a	1a	1a	1a
Total Acid Number	ASTM D974	0.01	0.01	0.01	0.01	0.01
Saybolt Color, minimum	ASTM D6045	+30	+20	+20	+20	+20

Majestic 813 Food Grade Process Oil does NOT contain any ingredient with the following allergenic, sensitizing components or allergenic proteins or substances listed in the table below:

Animal Products including Enzymes, Fats or Proteins	Genetically Modified Organisms (GMO)
Eggs	Fish
Peanuts	Soybeans and Products Thereof
Sulfites	Dairy/derivatives
Wheat	Tree Nuts
Gluten (wheat, rye, barley, oats, spelt, kamut)	Shellfish/Crustaceans/Mollusks
Sesame and Products Thereof	Lupine
Mustard and Products Thereof	Celery
Carmine/Cochineal	BHA, butylated hydroxyanisole
MSG, monosodium glutamate	BHT, butylated hydroxytoluene
TBHQ, tertiary butylhydroquinone	Hydrolyzed Vegetable Protein (HVP)
Autolyzed Yeast	Artificial Flavors
FD&C Color	Saccharin

WARRANTY:

When properly stored and used in accordance with instructions, any material not satisfactory will be replaced with any product in our line on a dollar for dollar basis provided the account is paid in full when due and Hydrotex is notified in writing within 12 months of the date of the order by the customer.

Hydrotex® is a manufacturer and distributor of high performance lubricant and fuel improver solutions. As an employee owned company, we help our customers develop sustainable solutions designed to improve system reliability, save energy, limit pollution, extend fixed asset life, reduce maintenance costs and improve fuel efficiency. Our products and services leverage over 80 years of innovation resulting in superior lubrication solutions and high touch customer service.