

## Esters

Product	Use	Typical values
<b>Methyl Stearate</b>	Helps solubilize a variety of chemical species by dissociating aggregates and proteins. Suggested Uses: In the manufacture of soaps, emulsifiers, spin finishes and textiles, pharmaceuticals, cosmetics and emollients, metallic stearates, surfactants and plastic lubricants. As an additive in paints, inks and industrial applications and as a dispersing agent in rubbers.	Acid value = 0.5 Color, Lovibond = 1y - 0.1r Iodine value = 0.2 Melting point = 33.0°C
<b>Smithol 21</b>	Synthetic lubricants, drawing & rolling compounds for non-ferrous applications. (water attractive)	Iodine value = below 1 Acid value = 6.5 Color, Gardner = 12 Viscosity, SUS@100°F = 250
<b>Smithol 22LD</b>	Drawing, stamping, rolling lubricants, de-emulsifiers, stripping oils from waste water, leather treating or textile spin finish compounds, rust preventative compounds.	Iodine value = 115 Acid value = 8 Color, Gardner = 6 Viscosity, SUS@100°F = 125
<b>Smithol 50B3</b>	Industrial lubricant additives, metal working lubricants, greases, cutting oils, leather treatments.	Iodine value = 100 Acid value = 6 Color, Gardner = 7 Viscosity, SUS@100°F = 120
<b>Smithol 54</b>	Synthetic lubricants, drawing & rolling compounds for non-ferrous applications. (water attractive)	Iodine value = 1 Color, Gardner = >1 Acid value = 5 Viscosity, SUS@100°F = 65
<b>Smithol 55</b>	Synthetic lubricants, drawing & rolling compounds for non-ferrous applications. (water attractive)	Iodine value = 1 Color, Gardner = >1 Acid value = 6 Viscosity, SUS@100°F = 95
<b>Smithol 774</b>	Industrial lubricants, and metal working lubricants. Promotes anti-seize properties in metal working lubricants.	Iodine value = 100 Color, Gardner = 7 Acid value = 8 Viscosity, SUS@100°F = 415
<b>Smithol 774M</b>	Industrial lubricants, and metal working lubricants.	Iodine value = 102 Color, Gardner = 7 Acid value = 8 Viscosity, SUS@100°F = 320

Product	Use	Typical values
<b>Smithol 76</b>	Industrial lubricants, metal lubricants, and rust inhibitors. Sulferizes well.	Iodine value = 90 Cloud point = 60°F Acid value = 8.5 Viscosity, SUS@100°F = 125
<b>Smithol 76-1000</b>	Industrial lubricants, metal working lubricants, metal stamping, rust inhibitor additive, deep drawing lubricants and bottle tube drawing lubricants.	Iodine value = 40 Cloud point = 63°F Acid value = 24 Viscosity, SUS@100°F = 980

## Nonionic Surfactants/Emulsifiers

Product	Use	Typical values
<b>Nonionic T9</b>	Emulsifier, low foaming water dispersible surfactant and as an additive in coatings.	Iodine value = 40 HLB 12 Acid value = 12 Cloud Point = 64°F Viscosity, @100°F = 195
<b>PEG200 Adipate</b>	Lubricant additive for water based systems.	Iodine value = less than 1 HLB 14.65 Color, APHA = 50 Viscosity@100°F = 700
<b>PEG400 Adipate</b>	Plasticizers, solubilizers and metal working lubricants	Iodine value = less than 1 HLB 16.8 Color, APHA 150 Viscosity@100°F = 940
<b>PEG400 Monolaurate</b>	Used as a leveling agent, solubilizer, viscosity control agent, defoamer in cosmetics, creams, lotions, textiles (fiber extrusion), paints and in other industrial uses as well as an antiblocking agent in vinyls and as a plasticizer.	Iodine value = less than 10 HLB 13 Color, APHA = 15 Viscosity, SUS@100°F = 175

## Hydrogenated Glycerides

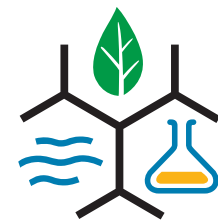
Product	Use	Typical values
<b>Hydrogenated Castor Oil 190</b>	Lithium or calcium base lubricating greases, hot melt coatings and adhesives, plasticizers, insulation waxes, paste waxes, wax compounds, cosmetics, candles, textile chemicals and sizes, metallic soaps, paper coatings and chemical reactions.	Melting point = 85°C Titer = 73°C Acid value = 2.5 Iodine value = 3 Saponification value = 180
<b>Hydrogenated Tallow Glycerides 145M</b>	Textile finishes: sizes, softeners and for reacting with and blending with other products. Lubricating greases – saponified and used as a thickener or jelling agent for petroleum oils where it is desirable to have glycerine present in the finished grease, wire drawing, wax compounds, buffing and polishing compounds. Candles, wire insulation and terne plate manufacture.	Melting point = 60°C Titer = 58°C Acid value = 0.5 Iodine value = 0.2 Saponification number = 198
<b>Hydrogenated Fish Glycerides 117</b>	Wax compounds, textile softeners and sizes. Yarn lubricants, grease sticks, polishing compounds, soda base greases, crayons, candles, leather stuffings, wire drawing compounds, paper coatings and plastics.	Melting point = 49°C Titer = 45°C Acid value = 1.0 Iodine value = 24 Saponification number = 188
<b>Hydrogenated Fish Glycerides 128</b>	Wax compounds, textile sizes, grease sticks for polishing, lubricating greases, adhesives, Japan Wax replacements, crayons, leather stuffings, stearates, wire drawing compounds of the calcium soap type, paper coatings and plastics.	Melting point = 54°C Titer = 51°C Acid value = 1.5 Iodine value = 4 Saponification number = 190

**Werner G. Smith, Inc. is available for tolling your products.**

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**Werner G. Smith, Inc.**

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**Product List**

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## Kettle Bodied (KB) Oils (Heat Polymerized)

Product	Use	Typical values
<b>KB Linseed Oils</b>	Surface coatings, enamels, light color alkyds, varnishes, and "stand oils"	Iodine value = 140 Acid value = 5 Color, Gardner = 2+ Viscosity, Gardner = K
<b>KB Safflower Oils</b>	Used in surface coatings because of its semi-drying qualities. Similar to linseed but without the yellowing.	Iodine value = 100 Acid value = 5.5 Color, Gardner = less than 2 Viscosity, Gardner = G
<b>KB Soya Oils</b>	Used in glazing compounds, caulks and putties because of its slow drying properties. May also be used as a vehicle in printing inks.	Iodine value = 100 Acid value = 7 Color, Gardner = 4 Viscosity, Gardner = G to Z2+
<b>S60L-P</b>	As an additive to industrial metal working lubricants, glazing putties and caulking compounds, plasticizers, surfactants, sealants, marine lubricants and rust preventative compounds.	Iodine value = 110 Acid value = below 7 Color, Gardner = 8 Viscosity, SUS @ 100°F = 790

## Kettle Bodied and Blown Oils (KBB)

Product	Use	Typical values
<b>KBB Menhaden Fish Oils</b>	As an additive in caulking compounds, glazing compounds, marine lubricants, sealants, paints, inks, soaps and greases.	Iodine value = 85 Acid value = below 10 Viscosity, Gardner = Z1 to Z5

## Blown (Oxidized) Oils

Product	Use	Typical values	Product	Use	Typical values
<b>Blown Canola Oils</b>	Putties, caulking compounds, soaps, plastics, cosmetics, inks and biodiesel	Iodine value = 40 Acid value = 15 Color, Gardner = 9 Viscosity, Gardner = Z2 to Z5	<b>Blown Herring Oils</b>	As additives in caulks, putty, leather tanning treatments, paints, lacquers, resins, sealants, inks, rust preventative coatings, alkyds, nitrocellulose plasticizers, varnishes, surfactants and plasticizers.	Iodine value = 45 Acid value = 13 Color, Gardner = 13 Viscosity, Gardner = T to Z3
<b>Blown Rapeseed Oils</b>	Marine lubricants, non-ferrous metal processing, drawing and release agents, plasticizers, ribbon inks, pigments, paints and enamels.	Iodine value = 55 Acid value = 14 Color, Gardner = 9 Viscosity, Gardner = Z to Z3	<b>Smithol 300M</b>	As an additive to metal working lubricants, metal stamping and rust preventative coatings.	Iodine value = 90 Acid value = 8 Color, Gardner = 9 Viscosity, Gardner = D+ SUS@ 100°F = 300
<b>Blown Linseed Oils</b>	Pigment binder in oil paints and wood varnishes, as a plasticizer and hardener in putties.	Iodine value = 100 Acid value = 5 Color, Gardner = 8 Viscosity, Gardner = Z1 to Z2+	<b>S60Z5</b>	In marine lubricants as a water absorption medium; as a replacement for Degras & tech. grade lanolin in metal working oils, compounds & rust preventatives; in textile lubricants, replaces tech. grade lanolin & neutral Degras in leather processing oils; in caulking & glazing compounds. S60Z5 is especially effective in rust preventative oils. Small additions to naphthenic type oils produce films with long term outdoor storage protection.	Iodine value = 55 Acid value = 17 Color, Gardner = 13 Viscosity, Gardner = Z5- ½ bubble Viscosity, Stokes = 94 SUS@ 210°F = 615
<b>Blown Soybean Oils</b>	In the production of alkyd resins for paints, coatings and printing inks. Also a fixative for essential oils in insect repellents, as a binder additive in aggregates or composites.	Iodine value = 65 Acid value = 7 Color, Gardner = 5 Viscosity, Gardner = Z2 to Z8	<b>Smithol 76-1000</b>	Industrial lubricants, metal working lubricants, metal stamping, rust inhibitor additive, deep drawing lubricants, and bottle tube drawing lubricants.	Iodine value = 30 Acid value = 22 Color, Gardner = 9 Viscosity, SUS@ 100°F = 1000
<b>Blown Menhaden Fish Oils</b>	Caulks, putties, mastics, lubricants, rust preventing compounds, additives to paint systems to increase flow and leveling. Have good gloss and drying properties, surfactants and plasticizers.	Iodine value = 90 Acid value = 9 Color, Gardner = 12 Viscosity, Gardner = Z3 to Z6+	<b>R60Z5</b>	In marine lubricants as a water absorption medium, metal working oils and rust preventatives, acts as a scavenger in mixtures containing chlorinated paraffin. Small additions to naphthenic oils produce films with long term outdoor storage protection.	Iodine value = 100 Acid value = 9 Color, Gardner = dark Viscosity, Gardner = Z4 SUS@ 210°F = 725
<b>Defloc Z3</b>	Defloculant in ceramic tape castings, caulks, putties, mastics, as an additive in lubricants and rust preventative compounds.	Iodine value = 95 Acid value = 8 Color, Gardner = 12 Viscosity, Gardner = Z3 to Z4+	<b>Smithol CDR-G</b>	Metal working and leather treatments. Made as a replacement for Crude Degras.	Iodine value = 27 Acid value = 20 Color, Gardner = 12 Viscosity, SUS@ 210°F = 270

Please ask about our A R B & D (Alcohol, Refined, Bleached, and Deodorized) Products

## Waxes

Product	Use	Typical values
<b>Cetyl Palmitate</b>	As an ingredient in cosmetics, as an emollient, emulsifier or thickening agent in skin creams and lotions.	Iodine value = below 1 Acid value = below 1 Color, APHA = 15 Melting point °C = 51-55 °C % of Cetyl Palmitate = over 95%
<b>Synaceti 116</b>	Used in sculptor's clay, as a cosmetic emollient, drawing compounds, finishing aids, lubricants and leather treatments. Has FDA sanction under CFR 21 174.200. May be used in solvent based coatings or varnish systems to improve surface gloss.	Iodine value = below 1 Acid value = below 1 Color, APHA = 15 Melting point °C = 43-48°C
<b>Synaceti 125</b>	May be used in solvent based coatings or varnish systems to lower the coefficient of friction, improve surface gloss, provide antiblocking characteristics and to develop clarity more quickly.	Iodine value = less than 1 Acid value = 3.0 Color, APHA = 50 Melting point °C = 54°

## Hywaxes

Product	Use	Typical values
<b>Hywax 117SB</b>	Forms small particle stable emulsions & as a dried film provides a rust protective film that can be machined over. May be used as an additive in corrosion inhibitors, grease thickeners.	Amine value = 44 pH1% solution = 9.4 Acid value = 13 Appearance = dark semi-solid
<b>Hywax 122SB</b>	Forms small particle stable emulsions & as a dried film provides a rust protective film that can be machined over. May be used as an additive in corrosion inhibitors, grease thickeners, or in concrete casting.	Alkalinity = 9 Acid value = 4.4 pH1% solution = 9 Melting point = 58.5°C Saponification No. = 149