

Innoleo Lubricants & Grease Applications Table (Market Segment)

	Automotive Lubricants			Industrial Lubricants					Oil Drilling Fluids	Grease
	Engine Oils	Transmission Fluids	Hydraulic Fluids	General Industrial Oils	Industrial Engine Oils	Marine Lubricants	MWF	Process Oils		
Innoleo® FSG (castor oil first special grade/#1 castor oil)				✓	✓	✓	✓	✓	✓	
Innoleo® NCO (neutralized castor oil)								✓	✓	
Innoleo® PU (polyurethane grade castor oil)								✓	✓	
Innoleo® HCO (hydrogenated castor oil)							✓	✓	✓	✓
Innoleo® RA (ricinoleic acid)		✓	✓	✓	✓	✓	✓	✓	✓	
Innoleo® 12HSA (12-hydroxy stearic acid)									✓	✓
Innolopol™ MCO (modified castor oil)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Innoleo® SA (sebacic acid)						✓	✓	✓	✓	✓
Innoleate® HMR (methyl 12-hydroxy stearate)				✓	✓	✓	✓	✓	✓	✓
Innoleate® MR (methyl ricinoleate)				✓	✓	✓	✓	✓	✓	
Innoleate® GMR (glycerol ricinoleate)			✓	✓	✓	✓	✓	✓	✓	
Innolamide™ NS (n,n ethylene bis 12-hydroxy stearamide)							✓		✓	
Innoleate® DE-117 (di-methylheptyl succinate)									✓	
Innoleate® DE-217 (di-methylheptyl sebacate)							✓	✓	✓	✓
Innoleate® DE-201 (di-methyl sebacate)							✓	✓	✓	✓

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Innoleate® DE-204 (di-butyl sebacate)							✓	✓	✓	✓
Innoleate® DE-226 (di-ethylhexyl sebacate)							✓	✓	✓	✓
Innoleate® SE-90 (polyhydroxy stearic acid)						✓	✓	✓	✓	
Innoleate® SE-100 (stabilized ricinoleic acid)						✓	✓	✓	✓	
Innoleate® SE-105 (stabilized ricinoleic acid)						✓	✓	✓	✓	
Innoleate® SE-200 (stabilized ricinoleic acid)						✓	✓	✓	✓	
Innoleate® SE-210 (polyricinoleate ester)						✓	✓	✓	✓	
Innoleate® SE-220 (polyhydroxy ester)						✓	✓	✓		
Innoleate® SE-230 (12-hydroxy stearic acid homopolymer)						✓	✓	✓	✓	
Innoleate® SE-240 (ricinoleic acid homopolymer)						✓	✓	✓	✓	
Innoleate® SE-250 (polyglycerol, polyricinoleate)			✓	✓		✓	✓	✓	✓	
Innoleate® SE-300 (PEG-40 castor oil/glycerol ricinoleate blend)						✓	✓	✓	✓	
Innoleate® SE-310 (PEG 40-hydrogenated castor oil /glycerol ricinoleate blend)						✓	✓	✓	✓	
Innoleate® SE-400 (glyceryl tri-acetyl 12-hydroxy stearate)		✓	✓	✓	✓	✓	✓	✓	✓	✓

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Innolative™ SPS-PR (sodium petroleum sulfonate-PR grade)							✓		✓	
Innolative™ SPS-E (sodium petroleum sulfonate-E grade)							✓		✓	