



Performance | Sustainability | Technical Excellence | Commercial Scale

Innoleo[®] 12HSA (CAS# 106-14-9)

Innoleo[®] 12HSA is a high purity 12-hydroxystearic acid derived from castor oil. The product is used widely in grease complexing to create in-situ soaps that are critical for grease performance. The product can also be used in thermoplastic applications as an internal lubricant, as well as in rubbers, acrylic polymers, coatings, and ink systems. In addition, Innoleo[®] 12HSA can be used as a raw material to produce specialty chemicals such as esters, ethoxylates, and sulfates, among others.

Product Performance Benefits

- Reactive hydroxyl group
- Improves grease stability
- Improves temperature stability
- Biodegradable
- Non-toxic
- Environmentally friendly

Typical Properties

Property	Units	Result
Gardner Color	-	7 max
Saponification Value	mg KOH/g	184-192
Total Acid Number	mg KOH/g	175-185
Iodine Value	g I ₂ /100g	4 max
Hydroxyl Value	mg KOH/g	153 min
Melt Point	°C	72-80
Moisture	%	3 max
Flash Point (Closed Cup)	°C	215 min

Applications

- Grease
- Acrylic polymers
- Specialty chemical manufacturing
- Rheology modifier in ink
- Lubricant in rubber production
- Thickener in H,I&I formulas

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