



Technical Data Sheet

DOWSIL™ AP-6087(SJ) Fluid

INCI Name: Amodimethicone

Features & Benefits

- Aminofunctional siloxane polymer
- 100% active
- Excellent wet and dry combing performance
- Improves hair smoothness
- Enhances hair shine
- Reduces hair static
- Color protection

Applications

A range of hair care applications including:

- Shampoos and rinse-off conditioners
- Leave-in conditioning treatments
- Colorants
- Styling products

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Clear, colorless to light yellow
Viscosity (25°C, RVT, Spindle 2 @ 2.5 RPM)	cP	3,000–8,000
Specific Gravity		0.98
Amine Neutral Equivalent		6,500–9,000

Description

DOWSIL™ AP-6087(SJ) Fluid is an aminofunctional siloxane polymer. It has a lower amine content, but higher molecular weight, compared to other Dow amino silicones. DOWSIL™ AP-6087(SJ) Fluid provides conditioning performance comparable to traditional amino silicones.

Description (Cont.)	DOWSIL™ AP-6087(SJ) Fluid provides excellent conditioning performance, including improvements in wet and dry combing in shampoos and rinse-off conditioners. Formulations with DOWSIL™ AP-6087(SJ) Fluid showed less yellowing compared to those with traditional amino silicones. When used in rinse-off and leave-in conditioners, DOWSIL™ AP-6087(SJ) Fluid reduces the loss of color in colored hair. In addition, DOWSIL™ AP-6087(SJ) Fluid, when used in leave-on applications, enhances hair shine and smoothness and reduces hair static.
How to Use	DOWSIL™ AP-6087(SJ) Fluid can be emulsified into water-based systems. Table 1 provides compatibility data for DOWSIL™ AP-6087(SJ) Fluid.
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life and Storage	When stored at or below 25°C (77°F) in original unopened containers this product has a usable life of 360 days from the date of production.
Packaging Information	This product is available in 18 kg pails and 200 kg drums. Samples are available in 1 kg bottles.
Health and Environmental Information	To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area. For further information, please see our website, dow.com or consult your local Dow representative.
Disposal Considerations	Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner. It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.
Product Stewardship	Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Table 1: Compatibility chart (ratios are DOWSIL™ AP-6087(SJ) Fluid: other material).

Other Material	1:1	1:9
Esters		
C12-15 Alkyl Benzoate	NC ¹	
Caprylic/Capric Triglyceride	NC	
Isopropyl Isostearate	C ²	
Isopropyl Myristate	C	
Isopropyl Palmitate	C	
Diisopropyl Adipate	NC	
Fatty Alcohols/Acids		
Lauryl Alcohol	NC	
Octyldodecanol	NC	
Oleyl Alcohol	NC	
Hydrocarbons		
Mineral Oil	NC	
Hydrophilics		
Ethanol 200 Proof	NC	NC
Propylene Glycol	NC	NC
Deionized Water	NC	NC
Glycerin	NC	NC
Sunscreen Actives		
Octyl Methoxycinnamate	NC	
Vegetable Oils		
Almond Oil	NC	
Joboba Oil	NC	
Lanolin Oil	NC	
Sunflower Oil	NC	

1. NC = Not Compatible
2. C = Compatible

Table 1: Compatibility chart (ratios are DOWSIL™ AP-6087(SJ) Fluid: other material). (Cont.)

Other Material	1:1	1:9
Miscellaneous		
Isododecane	C	C
Isopar H	C	C
Polydecene	NC	NC
Dow Materials		
Cyclopentasiloxane (and) Dimethiconol	C	C
Dimethicone (and) Dimethiconol	C	C
Dimethicone, 100 cSt	C	C
Dimethicone, 350 cSt	C	C
Cyclopentasiloxane	C	C
Cetyl Dimethicone	NC	
Stearyl Dimethicone	NC	
Phenyltrimethicone	C	
Dimethicone (and) Trimethylsiloxysilicate	C	
Dimethicone (and) Trisiloxane	C	C
Dimethicone, 5 cSt	C	C

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