

# Prototype Formulation for Durable Polish

## Auto Care Formulation Information

### Automotive Cream Wax

Formulation reference: PW-301



AV09029

### Description

This automotive cream wax was created and balanced with *Dow Corning*<sup>®</sup> brand silicone fluids, resulting in a high-gloss and easy-to-apply product. The *Dow Corning*<sup>®</sup> silicone fluids leave a soft film on a metallic surface. *Dow Corning*<sup>®</sup> 531 Fluid adds long-lasting protection to the wax film. This wax is appropriate for consumers and professionals.

Ingredient	Weight %	Trade Name/Supplier
1. Water	62	
2. Xanthan gum	0.3	
3. Stearic acid	2	
4. Polyethylene glycol stearate PEG 6000	1	<i>Cutina</i> <sup>®</sup> DSP 6B/Cognis
5. Sodium hydroxide @ 50%	0.4	
6. Kerosene	15	
7. Citric fragrance	0.2	D-Limonene
8. Carnuba wax emulsion @ 50%	4	
9. XIAMETER <sup>®</sup> PMX-200 Silicone Fluid, 100 cs	4	Dow Corning Corp.
10. XIAMETER <sup>®</sup> PMX-200 Silicone Fluid, 1,000 cs	2	Dow Corning Corp.
11. <i>Dow Corning</i> 531 Fluid	1	Dow Corning Corp.
12. Silicon dioxide 300# <sup>1</sup>	8	
13. Glutaraldehyde	0.1	The Dow Chemical Co.

<sup>1</sup>The silicon dioxide can be replaced with aluminum silicate 350# or 500# for better cleaning properties.

### Procedure

- 1) Place ingredient 1 in a vessel.
- 2) Add ingredient 2 to the main vessel at room temperature and stir until uniform.
- 3) Add ingredients 3 and 4 and heat to 65°C to reach the melting point.
- 4) Add ingredient 5 under agitation and cool to 35°C.
- 5) Add ingredient 6 and stir for 10 minutes.
- 6) Add ingredients 7–12 under agitation in the listed order one at a time until uniform.
- 7) Add ingredient 13 and stir for 10 minutes more.

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Visit [dowcorning.com/autocare](http://dowcorning.com/autocare) for additional information.

## Typical Properties/Additional Information

The fragrance provides a pleasant citric odor.

**Directions:** For good results, apply the product in circles. Do one section at a time. When haze appears, buff with a soft and clean cloth or cotton. If paste-like consistency is required, the xanthan gum can be replaced with the acrylic polymer *Carbopol*<sup>®</sup> 941 from Lubrizol (Noveon division).

See Auto Care Raw Material Supplier Reference Sheet (Form No. 26-1064) for the role of the raw material and supplier information.

## Two Brands to Serve You

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## Contact Information

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Printed in USA

AGP9889

Form No. 26-1598A-01

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