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VANDERBILT

Technical Data

Oil-Free Moisturizing Gel No. 508

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This oil-free, clear gel is easily spread and has a non-greasy feel. **VANZAN® NF-C**, a “clear solution” grade xanthan gum, provides viscosity to the formula and, together with sodium PCA (Sodium Pyrrolidone Carboxylic Acid), forms a gel-like structure. Glycerin moisturizes the skin, and the PPG-5-Ceteth-20 reduces the tacky feel of the glycerin/xanthan gum combination.

This formula is easy to prepare, as shown below:

Ingredients	% by Weight
VANZAN NF-C (Xanthan Gum)	1.5
Glycerin, USP	20.0
Water	74.5
PPG-5-Ceteth-20 (Procetyl® AWS) ¹	1.0
Preservative	q.s.
Na PCA (Ajidew® N-50) ²	3.0

¹Croda, Inc., Parsippany, NJ

²Ajinomoto, Inc., Parsippany, NJ

Procedure:

- Step 1.** Using the slowest mixing speed possible to avoid air entrapment, disperse the **VANZAN NF-C** into the glycerin.
- Step 2.** Add the water and mix until the **VANZAN NF-C** is dissolved.
- Step 3.** Add the remaining ingredients in order, mixing until each is thoroughly incorporated.

Formula Characteristics:

Initial pH: 6

In the lab, this formula produced a stable gel that passed three (3) months stability testing at room temperature, 5°C, 38°C, 45°C and 50°C, and a 3-cycle freeze/thaw.

Suggested Packaging: Clear squeeze tube or pump bottle.

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