

Starting point formulation – Anti-matting conditioner – coat couture

This premium dog conditioner visibly reduces matting with regular use and makes brushing easier, even for demanding coat types. The balanced combination of nourishing emollients and high-performance active ingredients provides valuable care and protection for both skin and coat. Thanks to **GARAMITE-7308 XR**, the formulation offers excellent stability, a pleasant sensory feel, and optimal distribution throughout the coat. After application, comb through the coat thoroughly and leave on for approximately 10 minutes before rinsing thoroughly with water. The conditioner can also be used as a leave-in grooming spray. Simply dilute a small amount with water at a ratio of 1:5 to 1:10 and spray evenly onto the coat. This helps improve combability, leaves the coat feeling softer and smoother, and promotes a well-groomed appearance.

Formulation

Position	Component	INCI	Supplier	Function	Dosage (%)
1	Demineralized water	Aqua		Carrier/solvent	82.12
2	Glycerin 99.5 %	Glycerin	Sigma Aldrich	Moisturizer	2.00
2a	Jaguar C-162 SGI /Jaguar C-16	Hydroxypropyl Guar, Hydroxypropyltrimonium Chloride	Syensqo/Solvay	Filmformer	0.30
3	VARISOFT W 575 PG SG	Quaternium-87	Evonik	Conditioner	2.50
4	Crambe Oil	Crambe Abyssinica Seed Oil	Henry Lamotte	Emollient	1.50
5	Argan Oil BIO	Argana Spinosa Kernel Oil	Gustav Heess	Emollient	1.00
6	Meadowfoam Seed Oil	Limnanthes Alba Seed Oil	Gustav Heess	Emollient	1.00
7	Lanette O	Cetearyl Alcohol	BASF	Consistency providing agent/emulsifier (OW-emulsions)	2.00
8	Genamin BTMS 50	Cetearyl Alcohol (and) Behentrimonium Methosulfate	Clariant	Conditioner, emulsifier	3.50
9	ABIL ME45 (MB)	Silicone Quaternium-22; Polyglyceryl-3 Caprate; Dipropylene Glycol; Cocamidopropyl Betaine	Evonik	Conditioner	0.80
10	D-Panthenol 75 L	D Panthenol, Aqua, D-Pantolactone	dsm-firmenich	Active	0.70
11	Hydrolyzed Wheat (Weizen) Protein	Hydrolyzed Wheat Protein	Le-Nutra	Active	1.00
12	GARAMITE-7308 XR	Quaternium-90 Sepiolite (and) Quaternium-90 Montmorillonite	BYK	Rheology modifier	0.50
13	Euxyl PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	Ashland	Preservative	1.00
14	Citirc Acid 10 % Solution	Aqua, Citric Acid	Carl Roth	pH-adjuster	0.08
Total					100.00

Instructions (manufacturing procedure)

- Add demineralized water into a beaker.
- Add Glycerin and after a short time Jaguar slowly into the water while stirring (IKA wingstirrer 650 rpm), stir at least for 30 min.
- Varisoft W 575 PG is added to the aqueous phase. The water phase is then heated to 75–80 °C (15 min/500 rpm IKA-Propeller stirrer).
- The Emollients, Lanette O and Genamin are added sequentially to the hot aqueous phase and melted under stirring until a homogeneous mixture is obtained (5 min/850 rpm IKA-Propeller stirrer).
- The mixture is then homogenized using an ULTRA TURRAX 6,000 rpm for approximately 1 min.
- Cool down to 45 °C under stirring. Hydrolyzed Wheat Protein, Panthenol, ABIL ME 45 and GARAMITE-7308 XR are then added sequentially and mixed in thoroughly (5 min/850 rpm IKA-Propeller stirrer).
- Once the temperature has dropped below 40 °C, Euxyl is added (1 min/850 rpm IKA-Propeller stirrer).
- Finally, the formulation is homogenized once again using the ULTRA TURRAX (30 sec/ 6,000 rpm).
- At last the pH-value is adjusted with Citric Acid or Sodium Hydroxide (6.2–7.0).
- Check the pH-value after 24 h once again and adjusted it with Citric Acid or Sodium Hydroxide (6.2–7.0) if necessary.
- Measure the viscosity and fill into tubes.

Characteristic data

- Appearance: off-white, viscous emulsion.
- pH-Value: 6.2–7.0.
- Storage stability: at least 3 months at 40 °C.

GARAMITE-7308 XR is an easy to apply rheology additive for the oil phase, an organoclay based on the mixed mineral technology.



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