

Block Copolymerized Trifunctional  
Co-polyhydroxyalkyl Silicone Oil  
2025/01/23 Draft. **PDS**

RX-4088CC is a block copolymerized trifunctional co-polyhydroxyalkyl silicone oil, suitable for softening and finishing treatment in various fiber, especially in cotton and cotton blends. It imparts excellent softness, smoothness, elasticity, and a feather-like soft touch to fibers and leather.

When stored in its originally sealed packaging at 5°C - 40°C, this product may be stored for up to 8 months from its manufacturing date. Comply with the storage instructions marked on the packaging. Once past this expiration date, TAI COUNTY CHEMICAL no longer guarantees that the product meets the sales specifications.

- Permissible pH range: 3.5~11.5
- Compatible with cationic and anionic softeners
- Suitable for secondary processing such as re-adhesion
- RX-4088CC (90%), certified by D4 notary unit with a detected content of 2180PPM
- Exhibits antibacterial, antifungal, and antistatic effects

- RX-4088CC is recommended to be diluted with water at a 20% ratio using the following procedure (using a paddle mixer):

RX-4088CC	:100	KG
Water(1)	:20	KG
Water(2)	:70	KG
Water(3)	:35	KG
Water(4)	:225	KG
Total	:450	KG

Appearance	Transparent to hazy yellowish liquid
Active ingredient(%)	90.0%
pH(1%Solution,25℃)	7.5±1.0
Ionic type	Cationic
Diluent	Water

1. Add 100KG of RX-4088CC product and slowly introduce 20KG of water (1), stirring until the liquid becomes gradually thickened (first turning point).
2. After the first turning point, add 70KG of water (2) and continue stirring until the consistency transitions from thickened to reduced viscosity resembling water (second turning point).
3. Following the second turning point, add 35KG of water (3) and continue stirring until thoroughly and uniformly mixed. This is the dilution method for a 40% emulsion.
4. **Diluted to 40%, the appearance is transparent to slightly turbid emulsion. If a transparent appearance is required, please add an appropriate amount of water-based solvents such as IPA, Sorbitol, etc.**
5. **Adding an additional 225 kg of water (4) will dilute it to a 20% emulsion with a slightly blue-tinted translucent appearance.**
6. Filter the mixture before packaging, recommended usage is 2-5%.

(Depending on the actual conditions, you can adjust the usage amount.)  
(A small amount of glacial acetic acid can be added to adjust the pH to 6.5-7.5 for use)

$$\text{H}_3\text{C}-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{Si}}}-\text{O}-\left[\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{Si}}}-\text{O}\right]_n-\left[\underset{\text{OCH}_2\text{R}(\text{CH}_2)_2\text{OR}}{\overset{\text{CH}_3}{\text{Si}}}-\text{O}\right]_m-\left[\underset{\text{CH}_3}{\overset{(\text{CH}_2)_3\text{NH}(\text{CH}_2)_2\text{NH}_2}{\text{Si}}}-\text{O}\right]_o-\underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{Si}}}-\text{CH}_3$$

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