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TAI COUNTY

TQCSI ISO 9001:2015
Quality Certified
TA2474-QC

RX-4088

Block Copolymerized Trifunctional
Co-polyhydroxyalkyl Silicone Oil

2025/01/14 Draft. **PDS**

Description

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

It is recommended for softening processes by finishing-padding or dyeing bath.

Storage & packaging

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.

Product comes in 120kg blue HDPE drums.

Characteristics

- 1% temperature resistant up to 95°C, returning to a light blue transparent liquid after
- Permissible pH range: 3.5~11.5
- Compatible with cationic and anionic softeners
- Suitable for secondary processing such as re-adhesion
- RX-4088 (90%), certified by D4 notary unit with a detected content of 2180PPM
- Exhibits antibacterial, antifungal, and antistatic effects

Applications

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

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

Properties

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

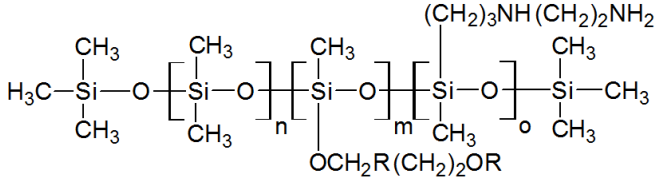
- **Modified cationic, can be mixed with most anionic components**
- **RX-4088 without any water-based solvents added whatsoever**

Processing

1. Add 100KG of RX-4088 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)

Structure



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