## ALFEEL<sup>®</sup>-SD

Soleo & Speciality Chemicals Div.

#### **1** What is ALFEEL<sup>®</sup>?

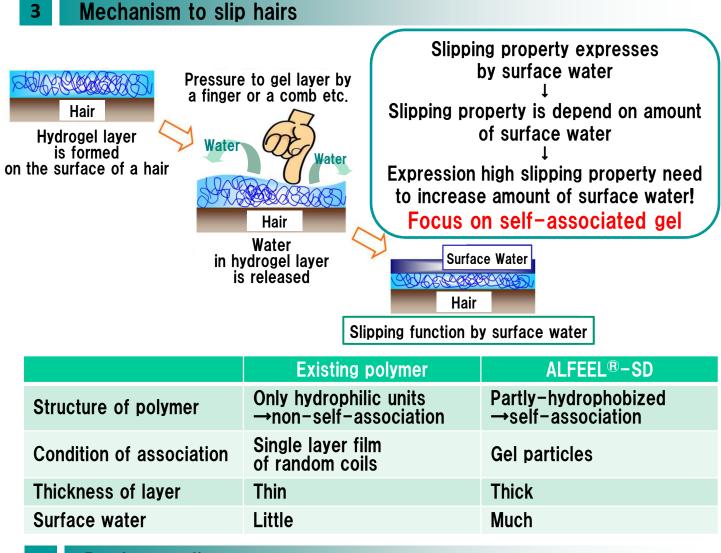
ALFEEL is polymer material for hair care whose feature is to form nanogel. It is made by application of polymer synthetic technique of LIPIDURE<sup>®</sup> that is famous for "biological compatibility".

#### 2 The features of ALFEEL®

**①**ALFEEL forms nanogel particle by self-association and it can slip hairs in wet condition.

**②**ALFEEL is effective at low doses and it does not provide polymer-specific rough texture to hairs.

**③ALFEEL** is cationic polymer and it adsorbs to hairs highly.



### 4 **Product outline**

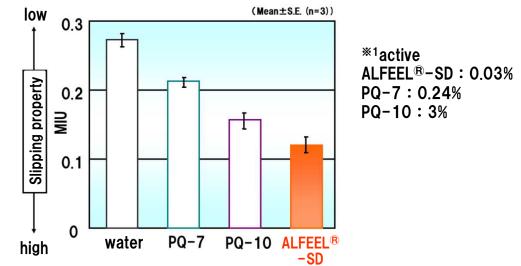
ALFEEL<sup>®</sup>-SD is 1wt% solution of polymer. And it also includes following ingredients. INCI name : polyqaternium-107, citric acid, sodium citrate, phenoxyethanol, water

#### **5 Improvement effect of slipping property to wet hair**

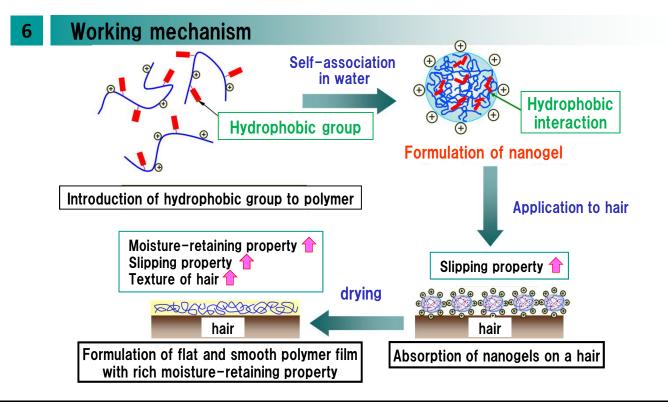
#### [Method]

**①**3wt% solution of ALFEEL®-SD, polyquaternium (PQ) -7, PQ-10 $^{*1}$  are prepared as treated solution for hairs.

**2**Coefficient of kinetic friction (MIU) of artificial hairs is measured in condition that they are immersed in treated solution.



ALFEEL®-SD has a more improvement effect of slipping property than existing materials.



# Oleo & Speciality Chemicals Div.

#### **Head Office**

Yebisu Garden Place Tower, 20-3 Ebisu 4-chome, Shibuya-ku, Tokyo 150-6019 TEL.+81-3-5424-6632 FAX.+81-3-5424-6810 http://www.nof.co.jp/

ALFEEL and LIPIDURE are registered trademarks of NOF CORPORATION in Japan.