A new option of oil for sleek hair

ACROBUTE[™] MB-90

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NOF CORPORATION

Compliant with JSQI

1 Friction control

Stribeck Curve

Stribeck curve expressed the relationship between the friction coefficient $[\mu]$, viscosity of the lubricating oil $[\eta]$, load [Fn], and velocity [v] (Figure 1).

When the conditions of the load and the velocity are kept constant, the friction coefficient decreases in the mix lubrication region as viscosity increases.





Viscosity of Oil is very important for friction control

2 Oil Type and Viscosity Control

Oil	Friction control	
Ester oil	Difficult	
Nonpolar oil (paraffin, isobutene, etc)	Molecular weight increase causes solidification and stickiness	
Silicone Oil	Possible by molecular weight control	
Polyether Oil	Possible by molecular weight control	

Polyether Oil can control viscosity by molecular weight.

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Lubricity (in treatment) 5

[Method]

4

(1) 10wt% solution of treatment containing 5wt% oil (table1) are prepared as treated solution for hairs. **2**Coefficient of kinetic friction (MIU) of artificial hairs is measured in treated solution $(\mathbf{1})$.

(3) Rinsing hair with water and, after drying, measure MIU



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0.5 Additive Oil 5.0

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ble.1		
	INCI	wt%
Oil	Cetearyl Alcohol	5.0
Water	Behentrimonium Chloride	2.0
	Water	Blance
	Phenoxyethanol	05