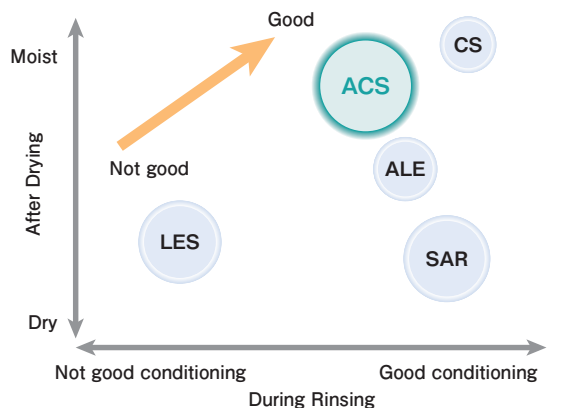


Amino acid-based anionic surfactant AMILITE® ACS-12

AMILITE® ACS-12 is a mild cleansing agent derived from L-Alanine and palm fatty acid and is suitable for hair shampoos. It has good conditioning ability in the presence of cationic polymer, and it imparts pleasant moisturizing feel after drying.

● Sensory image map

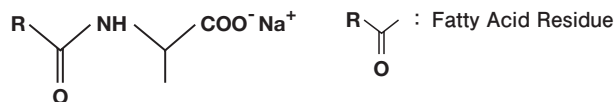


ACS : AMILITE® ACS-12
 CS : AMISOFT® CS-22
 LES : Sodium Laureth Sulfate
 ALE : Sodium Lauroyl Methylaminopropionate
 SAR : Sodium Lauroyl Sarcosinate

※15% aq. solution + 0.2% cationic cellulose (polymer JR400) under pH 5.8
 ※Size of bubble insists the foaming ability.



Molecular Structure

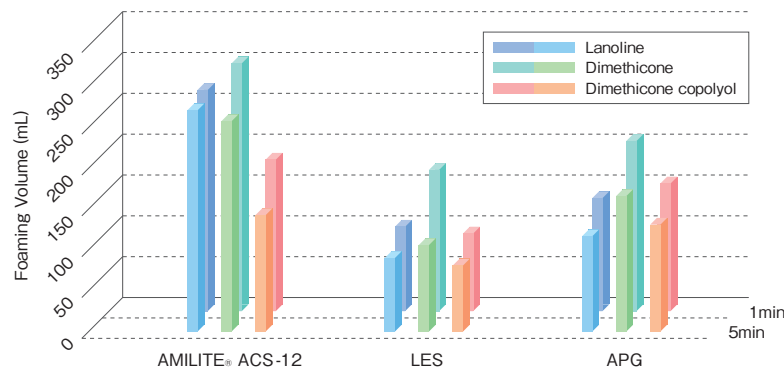


Characteristics

- Mild cleansing agent derived from amino acid, L-Alanine.
- Provides good conditioning effect in a combination with cationic polymer.
- Imparts a pleasant moisturizing feel to the skin.
- Good, creamy and resilient foam under weakly acidic condition or neutral.

● Foaming power of AMILITE® ACS-12 in the presence of oil materials

AMILITE® ACS-12 has good foaming ability even in the presence of oil materials.

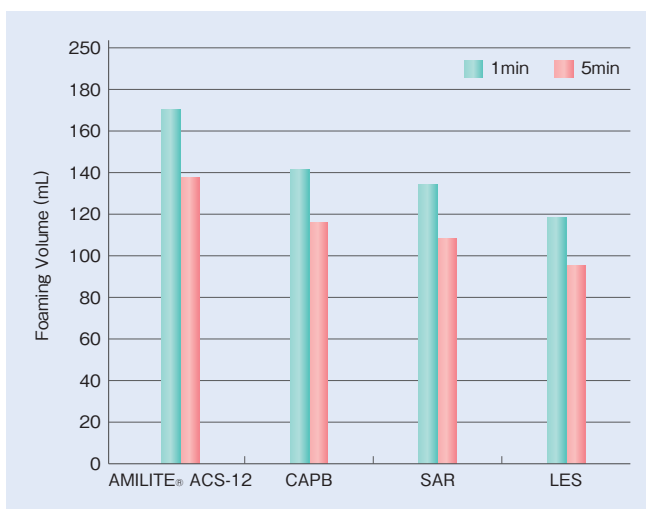


Method : Temperature : 30°C , Concentration : 1.0%, pH : not adjusted, 0.6% oil materials is added.
 LES : Sodium Laureth Sulfate, APG : Decyl Glucoside

● Foaming power of AMILITE® ACS-12 in hard water

AMILITE® ACS-12 has good foaming ability even in hard water.

Method : Temperature : 30°C , Concentration : 0.5%, pH : 6.5,
300ppm CaCO₃ is included in the test water.
CAPB : Cocamidopropyl Betaine
SAR : Sodium Lauroyl Sarcosinate
LES : Sodium Laureth Sulfate



● Sensory evaluation (hair shampoo)

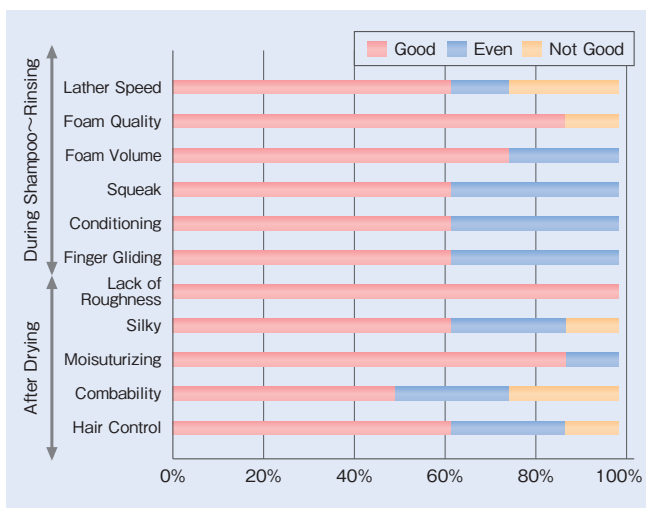
The model shampoo formulation including AMILITE® ACS-12 has good foaming and conditioning ability, and imparts pleasant moisturizing feel after drying.

■ Test formulation

(wt.%)

	P with AMILITE® ACS-12	Q without AMILITE® ACS-12
Sodium Laureth Sulfate (70.0%)	17.1	21.4
AMILITE® ACS-12 (30%)	10.0	—
Polyquaternium-10	0.2	0.2
Citric acid	q.s.	q.s.
Water	Balance	Balance

※ Adjust pH5.8



Test method : This test was done with 8 trained panelars. The sensory result of "P" in comparison with "Q" are summarised.

Material Information

Product Name	Product Code	Chemical Name	CAS No.	Physical Form	Packaging	PCPC INCI Name	Composition (%)
AMILITE®	ACS-12	Sodium N-Cocoyl-L-Alaninate, Water	90170-45-9	30% Aqueous Solution	18kg Can 200kg Drum 1t Container	Sodium Cocoyl Alaninate	30.0
						Water	70.0

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