

Zetemol AL SPECIAL NATURAL THICKENER

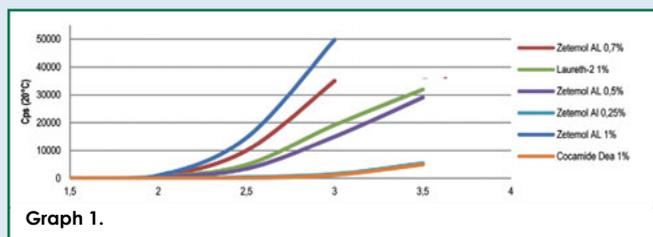


Effectiveness of the ingredients is a feature in the development of personal cleansing formulations. Rinse-off products should be thickened, not only because it would be easy to dose it but also because it is more attractive for the consumers. Bath foam or shampoo should be as milder as possible towards our skin, especially if formulations are designed for delicate or sensitive skin.

There are a lot of ingredients available for the formulator that help to build up viscosity: amides, ethoxylated esters and of course sodium chloride

ZETEMOL AL is a brilliant thickener also at very low concentration, because it is highly effective: (graph 1) Simple system, based on Sodium Laureth Sulphate was chosen to evaluate the effect of **ZETEMOL AL** on rheological behaviour of the formulation. Viscosity profile of the system was determined at increasing NaCl concentration with different amount of ZETEMOL AL compared with 1% of Cocamide DEA and Laureth-2.

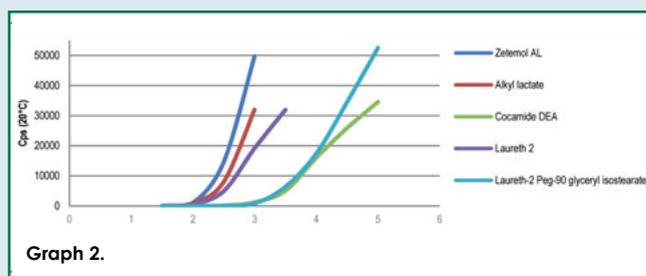
If **ZETEMOL AL** are used in the same condition, of other thickener, it gives better thickening performance.



Graph 1.

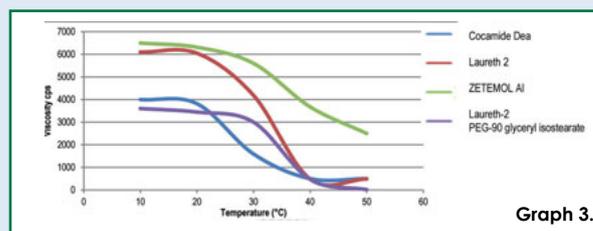
ZETEMOL AL was tested at 1 %, and compared with 1% of standard thickeners (Cocamide DEA, Laureth-2). Viscosity profile of the system was determined at increasing NaCl concentration.

Formulations made with **ZETEMOL AL** show better viscosity

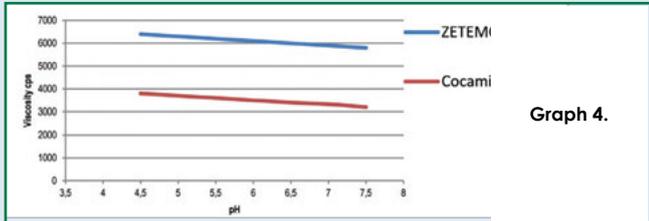


Graph 2.

stability in a wide range of pH and temperatures. This is an important feature and became an even more important advantages in formulations where particles are dispersed or suspended. (graph 3 and graph 4)



Graph 3.



Graph 4.

ZETEMOL AL can be easily incorporated in SLES-Betaine or in Sulfate free systems enhancing viscosity (table 1) without affecting negatively the foam.

ZETEMOL AL is also an emollient that shows remarkable moisturising effect so we could

ZETEMOL AL Where can I use it?	WITHOUT OTHER SURFACTANT	WITH AMPHOTERIC	WITH AMPHOTERIC AND OTHER SURFACTANT
	SULFETAL Alkyl sulfates	YES	YES
ZETESOL Alkyl ether sulfates	YES	YES	YES
SETACON Alkyl Sulfosuccinate	NO	YES	YES
PROTELAN AGL 85 Sodium Lauryl Glutamate	NO	NO	YES
PROTELAN LS 1430 Sodium Myristoyl Sarcosinate	NO	YES	YES

Table 1.

expect that it would provide additional benefit to rinse-off formulation, for example reducing the irritation caused by anionic surfactants currently used in personal care products. **ZETEMOL AL** is not only a versatile thickener but also an attractive natural raw material for rinse-off products.

ZETEMOL AL is a multi talented thickener that helps formulator to develop formulation meeting to the consumer needs.



**ZSCHIMMER & SCHWARZ
ITALIANA**

CONTACTS

Zschimmer & Schwarz Italiana S.p.A.
Via Angelo Ariotto 1/C, 13038
TRICERRO (VC), ITALY
s.manzoni@zschimmer-schwarz.com