

Emulsifier technology for effective feed production

Pelleting

Nouryon

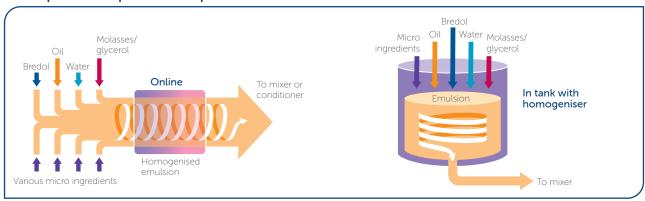
Cost effective pellet production with Bredol emulsifier

Bredol is the key to succeed in producing a homogeneous mixture of liquid components.

The Bredol concept allows greater flexibility in choice of liquids and dry raw materials without problems in production. It leads to higher throughput with less resistance and energy consumption. Pellets of consistent quality with stable moisture levels are produced. A key to success is the ability to produce a homogeneous mixture of liquid components with the help of Bredol product's powerful emulsifying properties.

The use of liquid components becomes easier with Bredol emulsifier. Fat and water and other ingredients form a fine mix which will be evenly distributed and absorbed in the meal leading to smoother production. High viscosity products like molasses or glycerol become more manageable. Micro ingredients become better dispersed or dissolved and better utilised, pigments being one example. In practice, the addition can be achieved through online mixing or via a tank with homogeniser.

Examples of liquid concepts



Broiler trial (42 days) with added water

	Control	Bredol 683	
Water content in feed after production, %	12.5	13.5	
Body weight, g	2321 a	2312 a	
Daily feed intake,g	90.8 a	90.5 a	
Feed conversion rate (FCR)	1.762 a	1.760 a	

p < 0.05 Source: University of Leuven, Belgium, 2004

Feeding and growth parameters were was kept in spite of a higher retained moisture with the Bredol group

Microbiological analysis of the broiler feed after two months storage

	Control	Bredol 683		
Water content in feed after production, %	12.5	13.5		
Aerobic bact., cfu/g	4700	2000		
Moulds, cfu/g	850	<150		

There was no microbiological growth despite higher moisture content in the Bredol group.



Typical advantages in production, trial single pelleting

Test run	Bredol ppm	Added water %	Oil in mix %	Press total Amps	Tonnes per hour	Durability	Meal moisture	Nut moisture
Control	0	1.0	0.5	375	18	96.2	13.5	11.4
Bredol	500	1.0	0.5	355	20	96.5	13.5	12.4

In the Bredol run, less energy was consumed and 11% higher output was achieved. This resulted in grinding process losses being replaced and the required moisture level was met.

Contact us directly for detailed product information and sample request website | bredol.com email | bredol@nouryon.com

Nouryon

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The development of emulsifier technology is a continuous process within Nouryon and the company is the owner of patents in many countries. It is the policy of Nouryon to enforce these patent rights and, accordingly, Nouryon is actively monitoring the industry for infringement and is in the front line when it concerns feed and food health & safety as well as environmental care. The quality system is based on HACCP principles and is FAMI-QS certified.



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