

Kessent™ M

General Product Information

Kessent™ M is a rumen-protected methionine product of Kemin Industries. It contains 750 g of DL-methionine per kilogram of product. The producer claims 90% rumen bypass, 90% digestibility, and 608 g metabolizable methionine per kg DM. The spheric core particle is coated with a pH sensitive co-vinyl-polymer. A high specific gravity and a low particle size of the product are claimed by the producer to be an advantage. The recommended dosage for lactating dairy cows is 12-16 g/day.

Evonik's Point of View

Kemin claims for Kessent™ M an identical methionine content, rumen bypass and intestinal digestibility as for Smartamine M® (product of Adisseo). Recent work presented at ADSA 2021 (Smith, Poster 471) showed no difference in performances between cows supplemented with Smartamine® M or Kessent™ M, highlighting that these two products have the same properties (coating material, nutrient value) despite a difference in particle size.

Two meta-analyses (Patton et al., 2010; Zanton et al., 2014) showed that **Mepron® is the most efficient rumen protected methionine to increase milk yield and milk protein content**, compared to Smartamine M® and other sources. Given the similarities between Smartamine M® and Kessent™ M, Mepron® with its unique ethylcellulose coating and slow-release technology will outperform Kessent™ M as well.

Table 1: Comparison of Mepron® and Kessent™ M

	Mepron®	Kessent™ M ¹
DL-Methionine content (%)	85	75
Rumen protection (%)	80	90
Intestinal digestibility (%)	90	90
Metabolizable Methionine (g/kg)	612	608
Coating	Ethylcellulose	pH sensitive co-vinyl-polymer
Product Release	Slow and continuous	Fast

¹Information from Kemin's brochure

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