

Preservation

KOFA® GRAIN -pH 5-



Group 2

Patented preservative for high-moisture grain and grain maize

KOFA GRAIN -pH 5- is a novel preservative containing sodium benzoate, propionic acid and sodium propionate for the use in cereals and grain maize. The unique, patented formulation makes it superior to other preservatives in terms of efficacy and user-friendliness. Compared with the drying of grain, the use of KOFA GRAIN -pH 5- offers significant cost benefits to the farmer. In addition, the product is as equally effective as pure acid blends, but has markedly improved handling properties for user and equipment.

The combination of a cleaning procedure of the grain immediately after harvesting and the application of the unique formulation of KOFA GRAIN -pH 5- with its strong inhibitory effect on yeasts and moulds forms the basis for excellent feed hygiene being the key for good animal health and high performance.

The concept of grain preservation with KOFA GRAIN -pH 5- is suitable for all farms irrespective of their size. ADDCON's service does not only include provision of this highly innovative product, but also covers expert technical advice in combination with excellent technological solutions (sale of preservation equipment, e.g. applicators, augers etc.). We offer tailor-made solutions which satisfy the needs of our customers.



For excellent feed hygiene and high animal performance

- **safe use – strong action**
- **patented preservative formulation with permanent EU approval**
- **long-lasting inhibitory effect on yeasts and moulds**
- **not corrosive on skin
less corrosive on metal
no dangerous good according to transport regulations**



HIGH-MOISTURE GRAIN

Chemical preservation ¹⁾

Recommendations for use and application rate of chemical preservative

CROP and MOISTURE CONTENT	KOFA GRAIN -pH 5- Litres/ton ²⁾		
	STORAGE LENGTH (MONTHS)		
	< to 3	3 to 6	> 6 to 12
WHEAT, BARLEY, OATS, RYE, TRITICALE, MAIZE			
14 %	3.0	3.5	4.0
16 %	4.5	5.0	5.5
18 %	5.0	6.0	7.0
20 %	6.0	7.0	8.0
22 %	7.0	8.0	9.0
24 %	8.0	9.0	10.0
26 %	9.0	10.0	11.0
28 %	10.0	11.0	12.5
30 %	11.0	12.5	15.0
>30 to 35 %	-	15.0	17.0
>35 to 40 %	-	16.5	18.5
>40 to 45 %	-	18.5	20.0
1) storage under aerobic conditions 2) safety margins: + 10 - 15 % when non-cleaned material is preserved + 10 - 15 % when material is stored at high temperature (>30 °C) + 10 - 15 % when milled or crimped material is preserved + 10 - 15 % when material is pneumatically transported			

Application equipment:

To ensure maximal efficacy of KOFA GRAIN -pH 5-, all grain kernels have to be treated with preservative. Treatment of moist grain and grain maize is done best by using augers which are equipped with suitable applicators. In collaboration with the German companies AHLMER (www.amg-gmbh.com) and SILA (www.silaspray.de), we offer tailor-made technological solutions for preservation, which can be used by farmers (auger through-put >10 t of grains per hour) and by contractors (auger through put > 40 t of grains per hour). Special equipment, e.g. grain cleaner and continuously weighing balance, are optional.



Technical Data

Composition:

sodium benzoate, propionic acid, sodium propionate

Density: 1.115 g / cm³

pH-value: approx. 5.0

Storage:

KOFA GRAIN -pH 5- is to be stored in a dry, cool (frost-free) and dark place. Shelf life of sealed original packages min. 2 years from production date.

EC approval:

KOFA GRAIN -pH 5- has been granted permanent authorization as preservative (E 700) for high-moisture grain and grain maize by the European Commission.

Packaging:

Canister (26 l)

Drum (215 l)

Container (1,000 l)

Bulk (> 10,000 l)

Use of KOFA GRAIN -pH 5- as silage additive

KOFA GRAIN -pH 5- is highly effective in improving bunk-life of silages. It was granted the DLG approval seal for aim of action 2 - improving aerobic stability. It has been used successfully in silages from forage maize and maize ear products (corn cob mix, maize ear and maize kernel silages) as well as in crimped grain silages stored in bags.

Novel applications: Excellent efficacy of KOFA GRAIN -pH 5- has been demonstrated for aerobically stored moist by-products of grain processing (e.g. brewer's grains, wet distiller's grain solubles) as well as for wet hay. Please contact us for further information and technical advice!

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