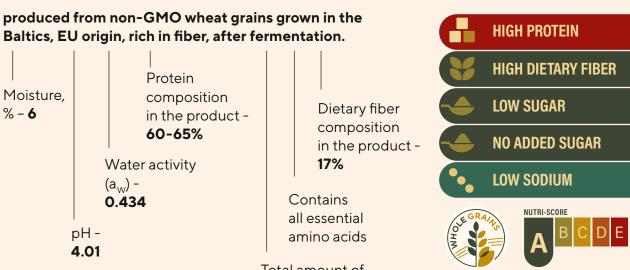
² W H E A T

HIGH QUALITY WHOLE GRAIN PROTEIN CONCENTRATE -

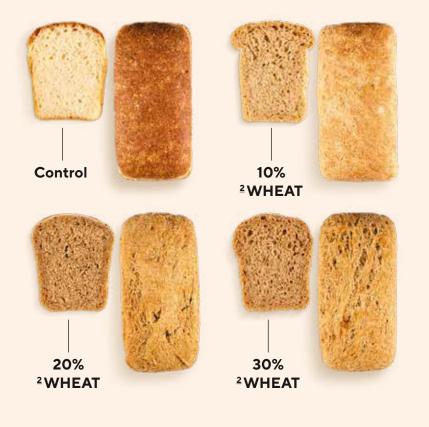


Total amount of amino acids - **60%**

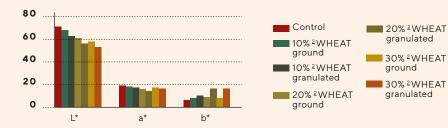
According to the recipe, the indication "PROTEIN SOURCE" may be used for control sample in accordance with the EC Regulation, but for the indication "HIGH PROTEIN" to be used, 15% of the total flour must be replaced by ² WHEAT and then the protein content of 100 g of the product will be 17.7 g. According to the recipe, it is not necessary to add²WHEAT in order to use the indication "FIBRE SOURCE" in accordance with the EC Regulation, but to use the indication "HIGH FIBRE from the total flour content of²WHEAT must comprise 18% or 16% of the total quantity of all raw materials (except water). According to experiments the optimal ² WHEAT content according to physical and sensory parameters is 15-20% of the total flour.

					Color		
Samples	Structure (hardness) , N	Moisture, %	рН	a _w	L* (lightness)	a* (green-red)	b* (blue-yellow)
Control sample	1.85	32.3	5.74	0.831	70.34	19.55	7.42
 10% ² WHEAT granulated	1.79	32.8	5.13	0.845	61.94	18.28	10.2
 10% ² WHEAT ground	1.83	33.4	5.1	0.844	67.08	19.03	8.24
 20% ² WHEAT granulated	2.84	32.0	4.84	0.849	67.08	16.15	15.19
 20% ² WHEAT ground	3.55	31.8	4.77	0.848	60.83	16.97	8.89
 30% ² WHEAT granulated	4.64	31.1	4.61	0.848	51.97	16.45	15.34
 30% ² WHEAT ground	7.20	33.5	4.6	0.847	57.45	17.83	8.3

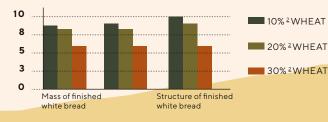
The amount of ²WHEAT added is of the total amount of flour.



COLOR OF WHITE BREAD:



EFFECT OF THE ADDITION OF ² WHEAT GROUND RAW MATERIAL ON DOUGH:



Adding ²WHEAT does not affect moisture and water activity (a_w) in white bread. There is an effect on the pH of white bread – the higher the concentration of ²WHEAT, the higher the acidity of bread.

The addition of ²WHEAT affects the color of bread: if ²WHEAT GRANULATED is added, they form dark, beige-colored, small-sized areas (dots), which cause associations with bran, seeds, whole grains; if ²WHEAT GROUND is added - the color of the bread is uniform, and a little darker than the control.

The addition of 2 WHEAT has no significant effect on the aroma.

A higher concentration of ²WHEAT produces a sour taste, reduces porosity, creates smaller pores and air volume, and the structure becomes slightly crumblier. During storage, the color of products with ²WHEAT does not change, nor does the aroma change significantly. The taste of products with ²WHEAT becomes more expressive and a higher concentration of ²WHEAT contributes to the crumb structure,

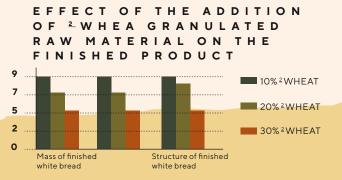


EFFECT OF THE ADDITION OF ²WHEAT RAW MATERIAL ON DOUGH:

The ²WHEAT GROUND mixes better into the dough and forms a dough-like control, it also binds better into the dough and is practically invisible. Doughs with ²WHEAT GRANULATED can also feel this fraction to the touch.

The dough, with 30%² WHEAT, makes a sticky, more plastic, uniform, heavier, tougher dough, while the rest of the doughs are non-sticky and similar in structure to the control.

All doughs both swell and ferment well and similar to the control.



but the moisture content of the products does not change significantly. The addition of ²WHEAT significantly affects the nutritional value of bread: the content of protein, dietary fiber and fat changes, it increases - for example, the protein content of the 30% protein concentrate sample is three times more than the control, while the dietary fiber content is 2.6 times more.

PRODUCER:

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