



The Center for standardization and metrology under Department of Economic Affairs of the Kyrgyz Republic



«Regulatory legal acts, technical regulation and standardization of enriched flour of the Kyrgyz Republic»

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September 6, 2016, Almaty city

Legislative framework

- **Law of the Kyrgyz Republic “On the principles of technical regulation in the Kyrgyz Republic” from May 22, 2004 N 67**
- **Law of the Kyrgyz Republic from March, 11 2009 №78 “About enrichment of flour baking”**
- **Governmental regulation of the Kyrgyz Republic from August 16, 2012 № 569 technical regulations “On safety of enriched flour”**

The list of standards that implement the requirements of technical regulations of the Kyrgyz Republic “On safety of enriched flour”

- **26 interstate standards (GOST)**
- **4 national standards of the Russian Federation, accepted as national standards (GOST R)**
- **3 national standards of the Kyrgyz Republic (KLS):**
 - **KLS 918:2004 «Wheat flour baking enriched by vitamin mineral or mineral supplements. General technical specifications».**
 - **KLS 990:2011 «Wheat flour of general purpose. General technical specifications».**
 - **KLS 1248:2013 «Premixtures for enrichment of wheat flour. General technical specifications».**

The maker of the national standard KLS for premixtures

- Interoperability Technical Committee 02 «Food products, agricultural products and its processing»:
 - KLS 1248:2013 “Premixtures for enrichment of wheat flourn. General technical specifications”
 - Amended №1 KLS 1248, affirmed by the order of the CSM
- Interoperability Technical Committee 09 “Grain and the products of its processing. Bread and bakery products”:
 - KLS 918: 2004 «Wheat flour baking enriched by vitamin mineral or mineral supplements» (the validity is prolonged, at the present time this standard is reviewed and updated)
 - KLS 990:2011 «Wheat flour of general purpose» (the validity is prolonged)

The enrichment of the flour

The issued of enrichment of the flour is subject to the Ministry of Public Health of the Kyrgyz Republic :

- in coordination with the Ministry of Public Health of the Kyrgyz Republic it is indicated at the standard KLS 918 that the compound and principles of input of the compound is set and confirmed by the Ministry of Public Health of the Kyrgyz Republic. This is due to the fact that the principles are changed by the Ministry of Public Health of the Kyrgyz Republic and there shall be no necessity to introduce the changes into the KLS.
- Such procedure is wide spread at the international practices.

The comparison of national standard and standards of vitamin mineral or mineral supplements provided by the KLS

| National premixture: | | Composition provided by the KLS | | |
|--|------|--|-------|-------|
| Affirmed by order of the Ministry of Public Health of the Kyrgyz Republic from 12/10/13 №598 | | Flour (extraction) | low | high |
| ferric iron (NaFeEDTA) | 15,0 | ferric iron (NaFeEDTA) | 15,0 | 15,0 |
| zinc (oxidezinc bloom) | 30,0 | zinc (oxidezinc bloom) | 30,0 | 30,0 |
| Vit.B ₉ (folacin) | 1,0 | Vit.B ₉ (folacin) | 1,0 | 1,0 |
| Vit. B ₁ (antineurotic vitamin) | 2,0 | Vit .B ₁ (antineurotic vitamin) | 2,0 | - |
| Vit. B ₂ (lactoflavin) | 3,0 | Vit. B ₂ (lactoflavin) | 3,0 | - |
| Vit. B ₃ (niacin) | 10,0 | Vit. B ₃ (niacin) | 10 | - |
| The weight of added premixtere, | | Vit. B12 | 0,004 | 0,008 |
| | | | | |

Safety indicators of the enriched flour

| Indicators | Permissible level, mg/kg, not more | Indicators | Permissible level, mg/kg, not more |
|----------------------|---------------------------------------|--|---------------------------------------|
| Toxic agents: | | Pesticides: | |
| plumb | 0,5 | Hexachlorocyclohexane (alpha, gamma, beta-isomers) | 0,5 |
| arsenic | 0,2 | DDT and its metabolite | 0,02 |
| cadmium | 0,1 | benzachlor | 0,01 |
| mercury | 0,03 | Organomercurial pesticides | are not permitted |
| Mycotoxins: | | 2,4-D acids, its salts, ethers | are not permitted |
| aflatoxins B1 | 0,005 | | |
| desoxynivalenol | 0,7 | | |
| T-2 toxin | 0,1 | | |

Safety indicators of the enriched flour

| Indicator | Permissible level, mg/kg, not more | References |
|---|---|-----------------------------------|
| Radionuclides (bq/kg): | | |
| Cesium – 137: | 60 | |
| Strontium - 90 | 30 | |
| Contamination of the enriched wheat flour the activator of "a potato disease" bread | Is not permitted for pan and hearth bread | In 24 hours after laboratory bake |
| Impurity by the wreckers of grain stocks | Is not permitted | |

Compliance verification of the enriched flour

- The enriched flour, produced in the Kyrgyz Republic and imported, shall be placed on the market in case of conformity with technical regulations “On safety of enriched flour”
- **Compliance verification of the enriched flour realized in the following forms:**
 - **1) production supervision;**
 - **2) conformity declaring;**
 - **3) public supervision.**

Technical regulations CU021/2011

- In accordance with technical regulations of the Customs Union 021/2011 “On safety of enriched flour” in the context of production process (manufacture) of food products, associated with safety requirements of the products, the manufacturer shall develop, implement and keep the procedures, based on the principles of the HACCP – Hazard Analysis and Critical Control Points.

(is effective from August 12, 2017)

Problematic issues

For harmonization of standards on fortification of food products it is necessary to solve the control system issue at the level of the state:

- Production of premixture (delivery);**
- Testing procedure to check the observance of standards;**
- Which document shall confirm the compliance of premixture's compound and which institutional body shall confirm this?**

Problematic issues

Due to the fact that the flour-grinding enterprises do not participate in participation financing on updating of the KLS 918, KLS 990, KLS 1248 standards, we consider necessary to settle an issue on a financial support of Technical committees (developers) on the part of UNCF and USAID on updating of these documents since they are evidential base of implementation of requirements of the technical regulation of the Kyrgyz Republic “On Safety of the enriched flour”.



Thank you for attention!

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