

MARKET OF METAL CONTAINERS IN UKRAINE: ECONOMIC AND ECOLOGICAL COMPONENTS

R. Antoniuk

Faculty of Chemical Technology,

National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

The relevance of this topic is due to an increase in demand for metal containers. The main types of containers are plastics, polyethylene, paper (cardboard), glass, metallized and metal containers. According to the State Statistics Service of Ukraine the output of tare-packaging products is:

Material	Output of tare-packaging products , natural units
Plastic	7 121 764 un.
Polyethylene	110 001 782 kg
Paper	1 015 095 000 kg
Glass	2 060 864 000 un.
Metal	445 058 500 un.
Tree	20 132 000 kg

Metal packaging has certain market positions and a unique scope of application.

The results of the TACIS program research "General Plan for the Development of Industrial Food Planning in Ukraine" in 13 countries of Europe have shown that more than 44% of consumers prefer metal packaging to plastic or cardboard for food and drinks. This is due to the fact that the metallized container retains the taste and smell of food products and is a canning container. The development of new metallized materials with given properties can stimulate demand for such packaging. The purpose of this research is to find out the prospects for the development of the metal packaging market in Ukraine.

According to LLC KBK, the value of the market for metallized packaging in Ukraine is approximately \$ 231 million. The advantages of such packaging include

relative mechanical strength, tightness and heat resistance. Depending on the intended purpose, the metal packaging can be reused from 5 to 50 times (mainly packaging are large).

As a result, the impact on the environment decreases and the amount of metal waste per unit time is reduced. Also, the multiple use of products reduces the production of new packaging, and thus reduces the amount of toxic emissions into the air, thus reducing the use of materials and energy. The demand for metal packaging increases with the increase in the production of food and chemical products, medical products, liquid, volatile, flammable and other goods. According to PJSC "Etalon Pack", every 15% of the used metal in the raw material reduces the emission of toxic gases by 18%, and in general, over the last 25 years, it has been possible to reduce the emission of exhaust gases by 75%. Also recently, the technology of steel hardening for packaging has been introduced, which should improve the strength and reduce the weight of the metal packaging.

As a result of the research, the prospects of the development of the sphere of metal packaging were analyzed. The iron has the multiple uses, light refining, the latest technologies for improving the properties of alloys and environmental implementation for production, I can conclude that iron as a material is competitive in the market of tare and packaging materials. It is exemplary for use in the food, chemical, pharmaceutical and construction industries.

REFERENCES

1. Завгородня В.М. Тара і упакування продовольчих товарів / В.М. Завгородня, І.В. Сирохман, Л.І. Демкевич. – Львів: Видавництво ЛКА, 2001. – 546 с.

2. Бойко О. Пакувальна галузь для харчових виробництв / Олександр Бойко // Тара та упаковка. – 2007 – №5 – С. 5-6.