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**CURRENT TRENDS IN THE PRODUCTION AND APPLICATION OF CONSTRUCTION MATERIALS AT THE ENTERPRISES OF THE OIL REFINING AND COKE MAKING INDUSTRY OF UKRAINE**

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*The article presents the results of the analysis of current trends in the production and use of structural materials at the enterprises of the oil refining and coke industry of Ukraine. It has been determined that the most promising materials are non-metallic composite materials, products from which have a number of significant advantages (high resistance to aggressive environments, lighter weight, relative simplicity of production, installation and use, and significantly lower cost) compared to metal ones. The article presents classifications of non-metallic structural materials by functional properties. This makes it possible to formulate the basic requirements for the components that make up composite materials. It has been established that enterprises of the oil refining and coke-chemical industries of Ukraine, given the peculiarities of the technological process, need chemical-resistant structural materials (CRSM), which, according to the proposed general formula, consist of a polymer, filler, lubricant, catalyst (if necessary) and dye. Moreover, it is proposed to use secondary raw materials for the production of CSCM – industrial and consumption wastes. This approach serves as the basis for the formation of the circular economy of Ukraine and can significantly reduce production costs and the negative environmental impact on the environment. Based on the formulated requirements for the main components of CFCM and their properties determined by the identified components, a list of materials that can be effectively used in the production of CFCM is proposed. These materials, depending on the component in the CFCM formula, include waste polyethylene products (LDPE and HDPE), polypropylene (PP) and polyethylene terephthalate (PET); sand, natural and waste clays, coke dust, ash and slag, mechanical impurities, construction waste; heavy oil residues, oil sludge and acidic tar; waste lubricating oils and greases, selective oil purification products, substandard oil products.*

Keywords: composite materials, chemical resistance, oil refining industry, coke-chemical industry, coke dust, oil residues, ash and slag, construction waste, mechanical impurities.

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