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The Role of Active Carbons (AC) in the Ecology of Production, Transportation and Processing of Oil

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The main ecological fields of active carbon application in oil industry, both put into practice and having good prospect for implementation, are highlighted in the article. The efficiency is shown related to the use of active carbons for drilling accident related to oil entering the soil of farmland active carbons – native strains – destructors of oil drilling accident related to oil entering the water supply sources the connection of the absorbers or filters with active carbons; oil transportation and protection of pipelines from weed damage due to herbicides creation of protective strips with active carbons to prevent migration of herbicides; oil filling in tankers the recovery of vapours of petroleum hydrocarbons; solvent recovery in petrochemical production capture and return to production; sanitary air purification from petrochemical products atmosphere protection; wastewater treatment at oil refining and petrochemical enterprises protection of the hydrosphere; refining of liquid petrochemical and oil refining products reduction of solid and liquid waste; protection of the lithosphere; the use of filter gas masks and respirators protection of personnel from harmful gases and vapours.

Biography:

In 1970 he graduated the Technological Institute. At present as the head of the laboratory of carbon sorbents. Victor M. Mukhin defended a Ph. D. thesis and a doctoral thesis at the Mendeleev University of chemical technology of Russia (in 1979 and 1997 accordingly). Professor of Mendeleev University of chemical technology of Russia. Scientific interests production, investigation and application of active carbons, technological and ecological carbon-adsorptive processes, environmental protection, production of ecologically clean food. The author of 900 scientific, 2 books and 3 catalogues about Russian sorbents. The honored inventor of Russia. He is the author of 270 investigations. Also he is professor of specialization of ecology.