

Application for exemption from EU REACH PFAS control for fluoropolymer tubes

Topic: Application of Permanent Exemption for Fluoropolymer Tubes

Reasons: Fluoropolymer Tubes (PTFE、PFA、FEP、PVDF、ECTFE, etc.) are widely used in important fields because of their excellent properties, which cannot be replaced by non-fluoropolymer materials or other materials.

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Application of Fluoropolymer Tubes (PTFE, PFA, FEP, PVDF, ECTFE, etc.):

1. The fluoropolymer tubes have the advantages of high or low temperature resistance, corrosion resistance, oxidation resistance, permeability resistance, and low friction coefficient. It is the best choice for transporting various materials with high or low temperatures, strong acidity or alkalinity, and organic solvents. It is an indispensable material for chemical, pharmaceutical, semiconductor, and environmental protection. Currently, there are no other materials that can replace fluoropolymers in terms of comprehensive performance;
2. Fluoropolymer tubes are widely used for heat recovery and utilization in heat exchangers in thermal power plants, chemical plants, and other industries due to their advantages of high temperature resistance and corrosion resistance. It is of great significance for reducing greenhouse gas emissions. At present, it cannot be replaced by other materials of tubes;
3. Fluoropolymer tubes are widely used in office printing equipment due to their high temperature resistance and non-stick. Its performance advantages are beneficial for saving paper and reducing environmental pollution caused by excessive consumption of ink or toner. Other materials cannot replace fluoropolymer tubes;
4. Fluoropolymer tubes has excellent biocompatibility, low friction coefficient, non-stick, good softness and elasticity, making it widely used in medical fields such as artificial blood vessels and endoscopy. The widespread and long-term use of fluoropolymer tubes in medicine also confirms that it does not pose a threat to human health.

Based on the applications of fluoropolymer tubes, they can be seen that fluoropolymer products from its production process and use and its downstream application will not cause harm to the environment and human body. Especially in environments with safety risks and extremely harsh working conditions where there are no substitutes. They should be exempted and allowed to be produced and used.

References:

1. Barbara J Henry and etc. A Critical Review of the Application of Polymer of Low Concern and Regulatory Criteria to Fluoropolymers, Integrated Environment Assessment and Management-Volume 14, Number 3-pp. 316-334