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成果转化

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成果转化

在理论研究的支撑下，多项科技成果得以转化并实现产业化，取得显著经济和社会效益。

Transfer of technology, developed out of fundamental research in the Institute, to industry has led to considerable benefits to the national economy and society.

建立多条工业生产线

片层结构硅酸钙多孔吸附材料：建立了年产千吨级工业示范装置6套；

硼酸酯型合成汽车制动液：建立了年产千吨级生产装置8套；

层状及层柱结构无机功能材料：建立了2套年产千吨级和1套年产万吨级工业示范装置。

A number of industrial production lines have been established:

●Porous plate-like calcium silicate adsorbents: Six plants each with an annual production of several 1000 tonnes have been established.

●Boric esters for brake fluid production: Eight plants each with an annual production of several 1000 tonnes have been established.

●Layered and pillared layered inorganic functional materials: Two plants each with an annual production of over 1000 tonnes have been established.

多种创新产品实现工业化生产

片层结构硅酸钙多孔吸附材料

特殊结构硼酸酯

硼酸酯型高级合成汽车制动液

超分子插层结构选择性红外吸收材料

系列镁基高抑烟无卤阻燃剂

超分子插层结构无毒热稳定剂

超分子插层结构选择性紫外阻隔材料

The following products based on technology developed in the Institute have been successfully produced commercially:

●Porous plate-like calcium silicate adsorbents

●Boric acid esters with novel structural features

●High-grade brake fluids based on boric acid esters

●elective infrared absorbing layered materials

●Non-halide fire retardants with enhanced smoke inhibiting properties.

●Supramolecular layered materials for non-toxic polymer stabilizing agents

●Supramolecular layered materials for selective UV blocking agents