

Process for recycling waste tires and rubber



Energías

Environmental
Technologies

Description

The tires are subjected to low temperatures, then crushed and separated into their various components. This material may undergo soft catalysis or deep catalysis. The former allows obtaining rubber that can be reused in the manufacture of new tires. The latter results in soluble liquid hydrocarbons, with controlled structure and molecular weight, which can be used in the manufacture of plasticizers, adhesives, paint additives background and heavy oil, and even as raw material to produce gasoline.

Application

This invention is the basis of a new technology for a complete recycling process of used tires for obtaining high-value products such as rubber for new tires, new films, films for agricultural uses, different types of paints and waterproofing, among others. This invention can be applied in the development of an innovative process to complete the production cycle of tires in an environmentally friendly way with the environment and without

Market potential

The Management Plan for Used Tires' Waste, prepared according to the Mexican norm NOM-161-SEMARNAT-2011, suggest the recovery of used tires from industry, the public sector, traders and general population.

Transferring conditions

- ✓ Technological development agreement (optional).
- ✓ Licensing (includes front payment and royalties)



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