**Vulcanized Rubber**

*\*lab book\**

Vulcanization

1. What is the process of vulcanization?
2. Why is rubber vulcanized? 8 reasons

Vulcanized Rubber

1. What is the estimated cost of cleaning existing stockpiles of tires?
2. What are the 2 most obvious hazards of stockpiling tires?
3. Why should the tires not be shipped to underdeveloped countries?
4. Why is TDF (incineration of tires) not a viable option?
5. What are the CE applications?
6. How is ground rubber used?
7. In the cryogenic process, what is done? Is it economical? Why or Why not?
8. How are the large rubber particles made from grinding used?
9. Another way to use up used tires is to chemically modify rubber. An approach is to “devulcanize”. What are the disadvantages of this method?
10. This article was written by a company that wants to combine a pulverization method with a modification technology to produce rubber particles from old tires. What do they say the benefits would be to people?
11. How would this technology help the planet?

Novel Concepts

1. Why is vulcanized rubber not regarded as an environmentally friendly material? (2 things)
2. What are the problems of rubber tires according to this article?
3. What can the reversal of vulcanization be compared with?
4. Why do laminated products complicate the issue?