



BASES TO THE FORMULATION OF RUBBER (MODULE I)

In this course there will be transmitted knowledges of the materials used in the compositions of rubber, as well as his mathematical treatment.

PROGRAM CONTENT
1) Introduction to the theory of the polymers with emphasis in saturated and insaturated rubbers.
2) Mathematical bases of formulation of rubber.
3) Zinc oxide - Action, importance and quality control.
4) Stearin - Action, importance and quality control.
5) Variation of the quantities of zinc and stearin in formulation (effects and problems).
6) Antioxidants and antiozonents - Importance and use.
7) Variation of formulations with several types of antioxidants and antiozonents.
8) Lampblack - Types and use in the compounds of rubber.
9) Mineral loads - Existent types, use and importance.
10) Agents of Processes or flow - existent types and applications.
11) Plastificants - Types and use.
12) Sulfur and accelerator - importance and use.
13) Systematic classification of the types of vulcanization for insaturated rubbers.
14) Updating – Silicas, use of silanes, use of sponge.



DURATION TIME

- ✓ 20 hours.

PREREQUISITE

- ✓ People with factory practice.

TARGET AUDIENCE

- ✓ Technicians, engineers, supervisors and persons with factory practice, sales and purchases, administration, processes, quality and product development staff.

SUPPORT

- ✓ It will be necessary to play handouts, I need overhead projector and whiteboard to teach and clarify the content.

NUMBER OF STUDENTS PER CLASS

- ✓ Maximum of 25 students.