



Environment, soil, geology, marine science



Organic chemistry, pharmacy



Food analysis & security



Petrol chemistry, coal, energy



Quality control


Sulfur in Tire Rubber


Instrument: ECS 8020


Mode: S


Pretreatments: grinding



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NC TECHNOLOGIES
Innovative Elemental μ -Analysis

Sulfur in Rubber



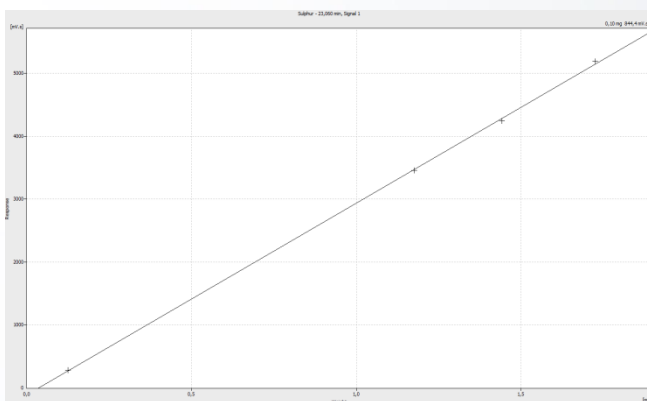
In 1855 Charles Goodyear invented a new method to convert and modify the rubber by giving it better physical characteristics. The vulcanization method is based on reactions between the rubber and sulfur. Sulfur is used to create “sulfur bridges”, chemical bonds that give to the rubber stability, resistance and elasticity.

Sulfur treatment gives also resistance to deforming and softening effects due to temperature changes. In accordance to the final use, more or less hard rubber can be obtained, by an accurate dosage of sulfur in vulcanization process.

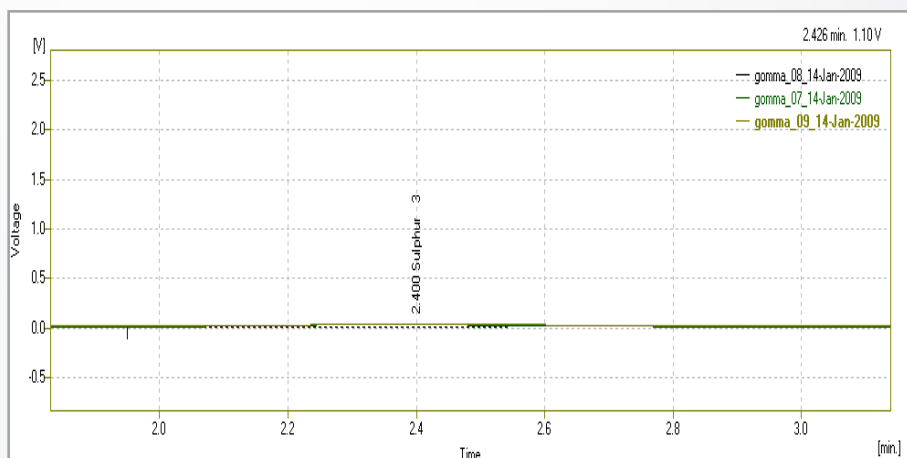
Concentration of sulfur is a quality control process fundamental to define the peculiarities of final product. ECS 8020, thanks to the optimized combustion and conversion of samples in gas, is the fastest and most precise equipment to this aim.

Parameter	Sulfur
Average	1.23
Standard deviation	< 0.01
Average Accuracy	< 0.01

All reported values unit: %



- ✓ Configuration: S
- ✓ Furnaces: No. 2
- ✓ Sampler: Pneumatic
- ✓ Chemical standard: Atropine sulfate



To send your samples for free demonstration analyses:
info@nctechnologies.it

For analytical and technical questions:
customerservice@nctechnologies.it



Quality control