Company Presentation (updated: September 2023)

RAILWAY

- SOGO RUBBER TECHNICAL PRODUCTS
- SOGOLAB FREE TO SHAPE
- SINCE 1967 -

- Technical Moulded Rubber Products;
- EXPANDED RUBBER MATS;
- LABORATORY Tests







Design & Manufacturing





SOGO - Group



SOGO SpA Group is an Italian consolidated industrial reality, Focused on the design, production and distribution of:



- technical RUBBER components;
- EXPANDED RUBBER mats

Mainly for the **automotive**, **industrial** and **RAILWAY** applications



- development & production of RUBBER COMPOUNDS
- LABORATORY TESTS on finished products





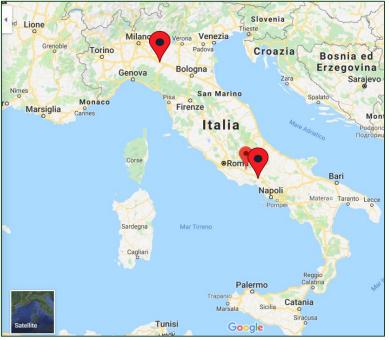






SOGO - Where We are





ITALY - Frosinone



SOGO SpA – with its HeadQuarter and its
Production Facility in Italy (Frosinone) and a
warehouse in Milano area - is expanding its
presence Worldwide in order to further and better
support the Customers' needs:

- Italy (HQ & Plant);
- **France**;
- Germany;
- Bulgaria;
- Marocco

The Production Plant has achieved all the **Certifications**required in order to supply
Automotive, RAILWAY and Industry applications

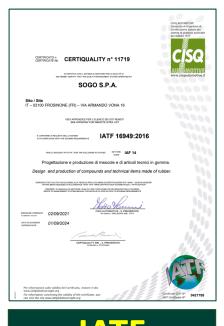












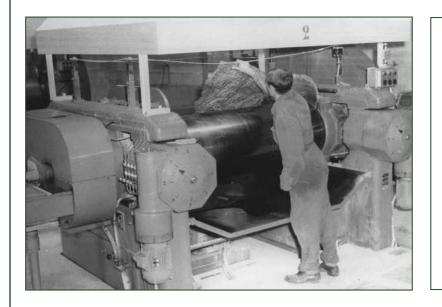
IATF



ISO 14001



SOGO – Highlights



Founded in 1967 in Frosinone Italy, SOGO SpA
Italian production plant covers more than
25.000 square/meters with a production
capacity over 9.000 tons/year and more
than 1.500 compounds formulations.



www.sogo.it













SOGO – Sustainability and Environment





SOGO – Renovation Plant (finished in September 2019)













In 2016 «SOGO-LAB» was born, thanks to important investments in labinstruments, technologies and highly specialized personnel; with the aim of supporting customers in the design, co-design and in the testing phases

CONCEPT DESIGN CO-DESIGN

ENGINEERING

LAB SIMULATIONS PROTOTYPING

TESTING



SOGO-Lab - Lab Tools





NEW LAB TOOLS

Dynamometer, ShoreA Durometer, Rheometer, Thickness Gauges, Calipers, Micrometers, Profile Projector, Compression Set, Impact Tester, Flammability Tester, Ozone Tester, Ovens, Theraometer, Mooney, Laboratory Samples Press, IRHD, Densimeter, Abrader, 3D Measuring System, Climatic Chamber, MTS with climatic chamber, Design Tools



SOGO-Lab – New Laboratory









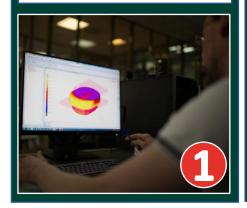






What do we do?

CO-DESIGN



COMPOUND



RAPID AND STANDARD PROTOTYPE



MOULDED RUBBER



CO-MOULDING



EXPANDED EPDM & NEOPRENE



ASSEMBLYING

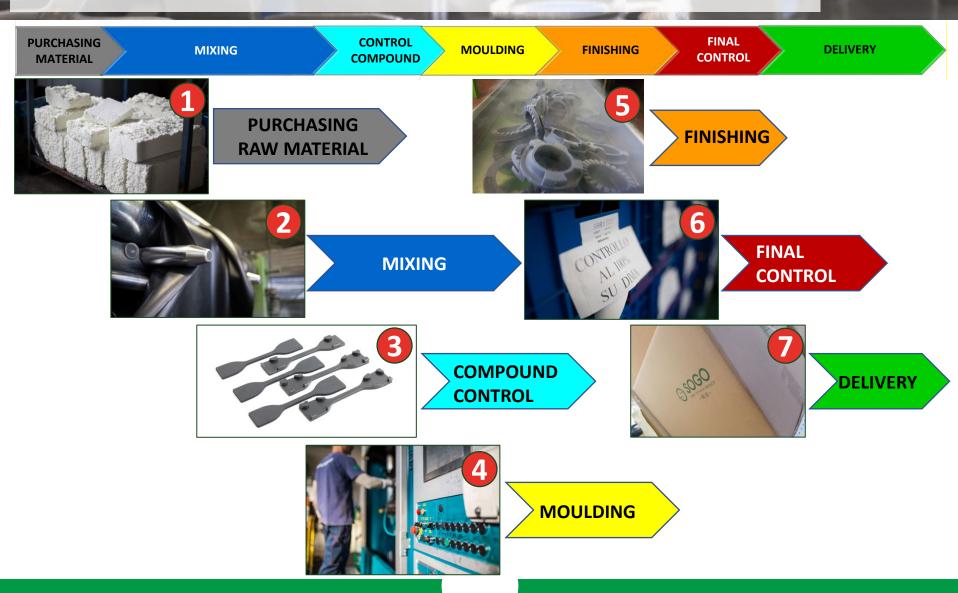


LAB TESTS





How do we do? Flow process diagram





Main Railway Customers































SOGOLAB

FREE TO SHAPE

— SINCE 1967 —





RHEOLOGICAL TESTS

- Mooney viscosity
- Rheology testing (MDR)

MATERIALS CHARACTERIZATION

- FT-IR Spectrometer
- Thermogravimetric analysis (TGA)
- Differential Scanning Calorimetry







PHYSICAL-MECHANICAL TESTS

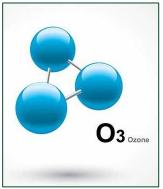
- Determination of ShA Hardness
- Determination of IRHD and mIRHD Hardness
- Determination of Electrical Resistance
- Traction and compression dynamometric test
- Determination Compression Static Hysteresis
- Tear test
- Compression Set Under Load
- Compression Set under Deformation
- Determination of Density
- Determination of humidity





ACCELERATED AGING TESTS

- Determination of Ozone Resistance
- Aging tests in air oven up to 200°
- Aging tests in fluids up to 200°
- Water absorption tests





CHECKS ON ELASTIC CHARACTERISTICS

- Determination of Static Stiffness on Finished Component
- Determination of Dynamic Stiffness on Finished Component (0÷200 Hz)
- Determination of Fatigue Strength on Finished Component at:
 - T.A.
 - +250°c in Climatic Room
 - -40°c in Climatic Room









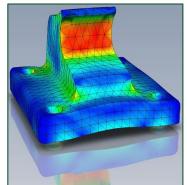
DIMENSIONAL CHECKS

Dimensional checks with Optical Meter
 3D Core Essential GOM



FURTHER SERVICES

- Finite Element Analysis
- Prediction Life
- Flow Analysis (Mold Flow Simulations)
- New Compounds research and Industrialization
- Specimen molding
- Processing of samples on Finished
 Component with Splitting Machine











RUBBER

EXPANDED RUBBER





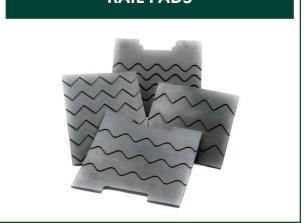












RAIL PAD



RAIL PADS



RAIL PADS

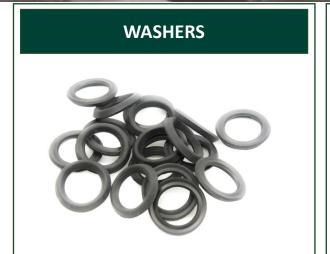


RUBBER

EXPANDED RUBBER















EXPANDED RUBBER







RUBBER

EXPANDED RUBBER









RUBBER

EXPANDED RUBBER



Automotive - Products





RUBBER

EXPANDED RUBBER



AUTOMOTIVE - Products



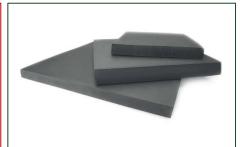
MOULDED RUBBER

EXPANDED MATERIAL



PROTOTYPES





















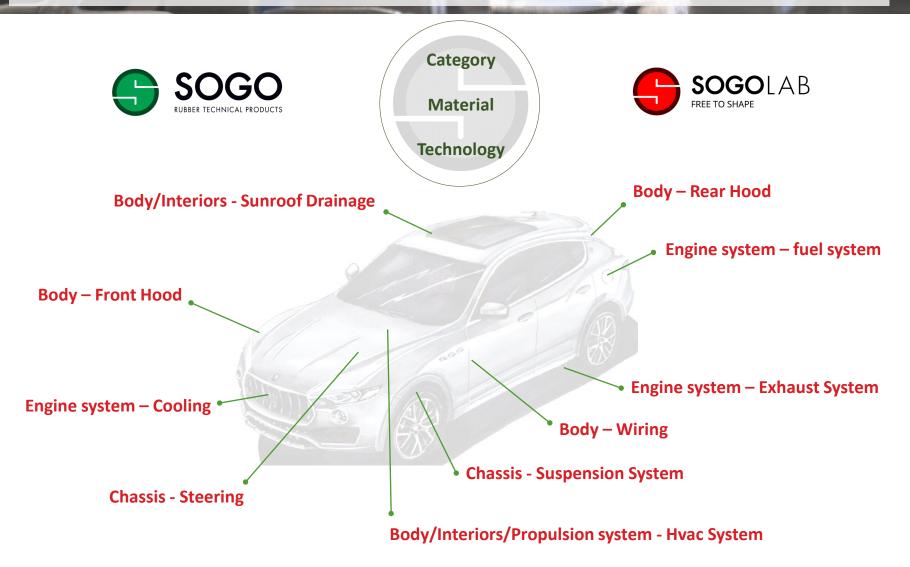






AUTOMOTIVE - Products

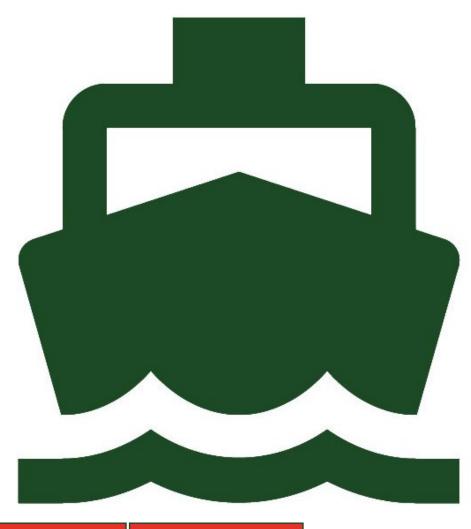






Industry - Products





RUBBER

EXPANDED RUBBER



INDUSTRY - Products



GASKET, DISTANCE ITEM







ENGINE SUPPORTS



BRIDGE SUPPORTS



EXPANDED NEOPRENE & EPDM MATS



ANTI-SEISMIC BEARING



SPORT FLAT CONES



RUBBER MATS FOR PADEL COURTS



METAL TO RUBBER COMPONENTS



RUBBER

EXPANDED RUBBER



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VIDEO AZIENDALE SOGO SpA – italiano: https://www.youtube.com/watch?v=JVxbDt4pEmw
SOGO SpA CORPORATE VIDEO – english: https://www.youtube.com/watch?v=bkZdtl3fFhw
VIDÉO DE L'ENTREPRISE SOGO SpA – français: https://www.youtube.com/watch?v=bkZdtl3fFhw

VIDEO DES UNTERNEHMENS SOGO SpA – deutsche: https://www.youtube.com/watch?v=wdWtQawj7nE



