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Indirizzo	<b>STAZIONE SPERIMENTALE DEL VETRO scpa</b> Via Briati 10 30141 Venezia - Murano
Nazione	Italia
Telefono	0039 041 27 37 011
Fax	0039 041 27 37 048
Internet	www.spevetro.it
Dipendente	56
Fatturato	> 6.5 M€
Certificati	Testing Lab no 0073L according to UNI CEI EN ISO/IEC 17025; Notified Testing Lab no 1694 according to EU Reg. no 305/2011 - Construction products; Inspection Body and Testing Lab for the use of the UNI Trademark for glass for building applications.
Anno di fondazione	1956
Asoziazione	International Commission on Glass (ICG); European Society of Glass (ESG); Associazione Tecnologi Italiani del Vetro (ATIV); Union pour la Science et la Technologie Verrières (USTV); Glass Trend

## REFERENTE

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## PRODOTTI O MACCHINARI

Stazione Sperimentale del Vetro (SSV) provides a wide range of analytical and technical support services, such as:

development of applied research projects  
laboratory analyses and tests for the determination of all the chemical, physical, mechanical, optical, thermo-physical properties relevant for the glass industry on raw materials, cullet, glass products and also refractories  
glass defects identification and interpretation, and technical assistance for the resolution of the production issues at their origin  
on-site measurements and samplings on emissions and workplace environment  
on site technical assistance for the optimization of the operation of the melting furnace (energy balance, combustion optimization, helium tracing flow mapping, endoscopic inspection, thermal mapping) and of the waste gases treatment system (sulfates and chlorine balance, calibration of CEMs, evaluation of filter and scrubber abatement efficiency)  
small scale melting tests in electrically heated furnaces,  
product compliance certification in the fields of pharmacopeia, food-contact, cosmetics, structural elements, glazing units;  
process quality control, eg. shock logger optimization of filling lines, HST verification of tunnel furnaces for flat glass thermal strengthening or toughening, etc  
container glass design optimization by FEM numerical simulations.  
a complete range of analytical services for the characterization of refractory materials, both for glass and non-glass (e.g. steel, ceramics, cement, petro-chemical, chemistry) applications, including on site quality audits to refractory producers, pre-assembly inspection, post-mortem evaluation.  
technical training at the introductory and expert level, and scientific dissemination  
consultancy on verification of compliance to REACH, ETS, RoHS and other legislations

### Business Domains

Glass Products  
Batch and Melting  
Flat Glass  
Hollow Glass  
Tableware  
Glass Tube  
Glass Fibres  
Glass Frits  
Artistic Glass  
Special Glass  
Raw Materials and Glass Cullet  
Environment and Emissions  
Energy and Furnaces  
Refractory Materials  
Ceramic Materials and Glass Ceramics

The thermal properties of glass articles as well as the behaviour of the melt at high temperature are of great importance for CFD modelling and for the correct management of the glass production process (boosting management, gob temperature, annealing curve).

Stazione Sperimentale del Vetro is an internationally recognized center of excellence for the measurement of thermophysical properties of glass, and is one of the few in the world to be equipped with the scientific instrumentation and expertise necessary for an integrated and complete characterization of the following properties: viscosity, density and electrical resistivity at high temperature (up to 1650 ° C), thermal expansion curves, determination of the softening and annealing points.

High temperature viscosity  
High temperature surface tension

Softening point  
Annealing and strain point  
Glass transition temperature  
Electrical conductivity  
High temperature density  
Thermal conductivity  
Mechanical relaxation of glass  
Devitrification curve  
Average linear coefficient of expansion (LTE)

## STORIA

Stazione Sperimentale del Vetro (SSV), active in Murano-Venezia since 1956, is an international research center and a specialized analysis laboratory accredited UNI CEI EN ISO/IEC 17025, and provides technical and scientific support to the entire supply chain of glass: producers, manufacturers, users of glass, producers of raw materials, refractories and equipment for the glass industry.

More than fifty people, including graduates, engineers and specialised technicians, work in laboratories equipped with the latest generation of scientific instruments, developing applied research projects, providing technical assistance services and carrying out quality control, certification and compliance tests in the various application sectors of the glass industry: hollow glass, flat glass for the building industry and for transport, household articles, technical glass, glass fibres and artistic glass.

SSV currently operates as a non-profit public owned joint-stock consortium company, whose majority of shares are held by the *Chamber of Commerce of Venice, Rovigo and Delta Lagunare*, the rest being property of *Assovetro*, the Italian association of industrials of the glass sector.

SSV's laboratories are located in two sites: the headquarters is on the island of Murano, and houses most of the laboratories, while the flat glass division has been moved to the VEGA scientific-technological park, in Porto Marghera (in the mainland), since 2001.

### Company Profile of **STAZIONE SPERIMENTALE DEL VETRO scpa**

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