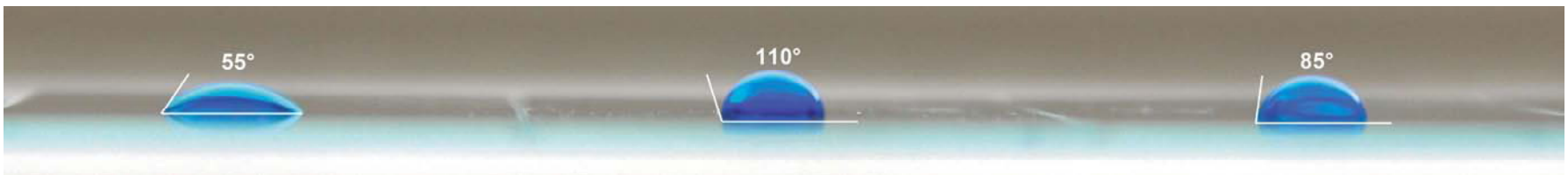
ISERA

Inertised Surface



INNOVATION & SERVICE IN ANALYTICS

Inertised Glass Surfaces

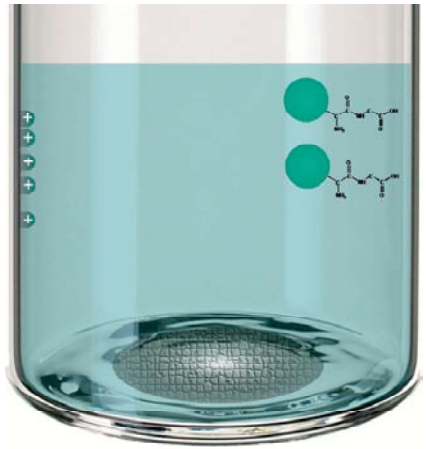
The ***ISERA Inertised Surface*** processes are versatile modification procedures that generate defined surface characteristics, turning a proven basic material into a high-performance product.

You can choose between different surface properties according to your particular application, e.g. in order to eliminate undesirable interaction between the glass surface and your analyte.

Arming a proven material for new challenges

Despite the high purity and durability of glass the interaction of its surface with a medium can result in a detrimental change of the medium´s composition.

Because of the constantly increasing demands made on materials and surfaces even class 1 borosilicate glass often no longer satisfies the quality requirements of laboratory technicians. For example alkali ions may diffuse from the glass, components of the sample might absorb to the surface or deposits might be formed because of salts being present in the sample.



- **chemical and thermal resistance**
- **excellent surface coverage**
- **different polarities**

The Inertised Surface procedures use highly efficient gas-phase reactions to create covalenty bound molecular layers with appropriate functional groups creating the favoured surface characteristics. No silicone oils are used.

Inertised Glass Surfaces

IS-1 – hydrophobic silanized surface for minimisation of electrostatic and polar adsorption.

IS-2 – hydrophobic surface with weak alkaline characteristics. Especially suited for basic compounds like amines.

IS-3 – fluorinated surface with extreme inertness.

Only use top-quality vials for handling your sensitive samples!

Sample vials of different sizes and shapes are constantly in stock.

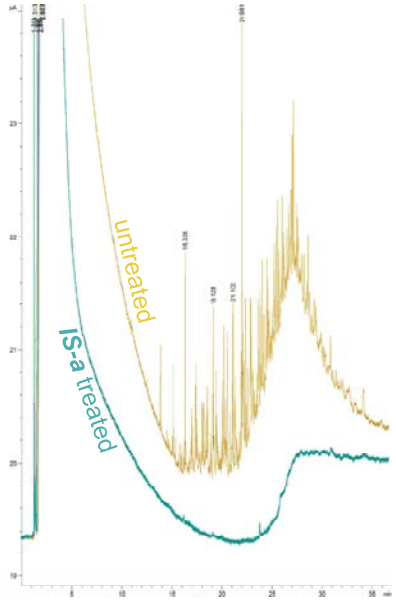




Inertised Polypropylene Surfaces

The innovative ***IS-a*** coating technology generates highly inert surfaces with predefined characteristics. Due to the treatment unwanted adsorptions can be considerably reduced and contaminations by leachables can be minimised. The coated vials are therefore especially suitable for applications in which glass surfaces cause difficulties – e.g. ion chromatography or analysis of biomolecules like peptides and proteins.

First choice for ion chromatography & biomolecules!



Comparison of leachables from polypropylene micro inserts (GC-FID, solvent: Hexane)

The **ISERA Inertised Surface processes** are applicable on any kind of glass surface and most polypropylene surfaces. Of course, we would be pleased to provide our support for your individual objective.

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