



surface
technologies



Eindhoven
heat treatment

Aalberts Surface Technologies Eindhoven B.V.

One of the most modern heat treatment companies of Europe

Aalberts Surface Technologies Eindhoven B.V. is one of the most modern heat treatment companies in Europe. Located at Achtseweg Noord in Eindhoven, the company operates in various demanding markets. We are the specialist in (vacuum) heat treatments, thermochemical diffusion processes, vacuum brazing and PVD-CVD coatings.

The main values of Aalberts Surface Technologies Eindhoven B.V. are quality, technical solutions and attention to the customer. By adapting the processes to the products and wishes of the customers, optimal quality and the best results are realized.

Aalberts Surface Technologies Eindhoven B.V. deploys a wide range of processes in the field of heat and surface treatments and is equipped with a very diverse and modern machine park, including process-specific low dust areas. Unique here are the specialism in vacuum brazing (HD Brazing®) and the in-house developed Stainihard® process, with which the surface of stainless steel can be hardened. In addition, Hot Isostatic Pressing (HIP) was added to the process portfolio in 2024.

With a history that started some 75 years ago, a broad experience and knowledge has been built up. Knowledge in the field of heat and surface technologies, but also of various standards and quality systems (including ISO9001, AS9100 and NADCAP). Our specialists in metallurgy think along from the early stages of a project. This to ensure that your wishes are translated 100% into the solution. And, to optimize the elaboration in terms of quality and costs and therefore the successful completion of your project.

Technologies

Thermal processes

- Hardening and tempering
- Annealing
- Sub-zero



Thermal processes are heat treatment processes to improve material properties. With the goal of achieving a desired result, such as making a material harder or softer.

Hot Isostatic Pressing

- HIP



HIP is a process in which high temperature and high pressure are applied simultaneously. Under these conditions, of temperature and pressure, internal pores and/or defects “disappear” improving mechanical properties.

Thermochemical processes

- Nitriding
- Nitrocarburizing
- Stainihard®



These thermochemical surface processes diffuse nitrogen and/or carbon atoms into the surface of the material under relatively low temperatures. As a result, surface hardness, wear and fatigue resistance are improved.

Brazing

- Vacuum brazing
- Brazing in inert gas
- HD Brazing®



High-temperature brazing makes it possible to produce high-quality joints that can withstand large forces and, in many cases, are superior to welded joints. Also, very complex geometries, which cannot be designed with other techniques can be realized.

Thin layer processes

- CVD
- PVD



PVD and CVD coatings apply a “high performance” layer with very high hardness to your products. The layer thickness varies from a few nanometers to a few micrometers

Our markets



Aerospace



Semicon



Automotive



Medical



Tooling / die



Engineering



Energy



Additive manufacturing



Your contact



Ruben van Os
Plant manager



Ewald Peels
Customer service



Rick Bruggeman
Sales



Jeroen Jansen
Sales



John Zwalua
Sales



Benjamin Rutttert
Sales

Quality

Aalberts Surface Technologies Eindhoven B.V. looks ahead and strives to find potential improvements, control risks and use existing resources more effectively. Processes are transparently documented and there is an intensive internal transfer of knowledge and information. The current quality systems provide a culture of quality that stands for reliability, trust and guarantees the successful completion of your project. You can find our certificates on our website.

ISO 9001	ISO/TS 16949	CQI-9	AS/EN 9100	NADCAP	ISO 14001
A			A	A	A



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