

We are committed to realize the potential of precious metals as responsibly as possible. We underline this commitment with our pledge to responsibility: **precious to us.**

RESOURCES are precious to us
PEOPLE are precious to us
CLIMATE is precious to us

Our pledge to RESPONSIBILITY

We conserve resources and promote a circular economy.

We decarbonize our business.

We prioritize people's well-being and interests.

herae.us/sustainability

We make your glass precious
 Discover Heraeus glass products and solutions

What makes Heraeus special:

Our core competencies at a glance

- Processing of precious metals and their alloys
- Semi-finished products, solid components for glass production
- DPH (Dispersion Hardened) alloys with reduced rhodium content
- Extending expertise throughout the precious metal cycle including recycling

What we produce at Heraeus:

Our products for the glass industry

There is a wide choice of precious metals and their alloys.

The success in glass production is determined by the right material. Heraeus produces several types of equipment for the glass industry, such as:

- Electrically heated feeder systems
- Stirrers & Plungers
- Gobbing stirrers
- Glass fiber bushings
- Cladding glass tools



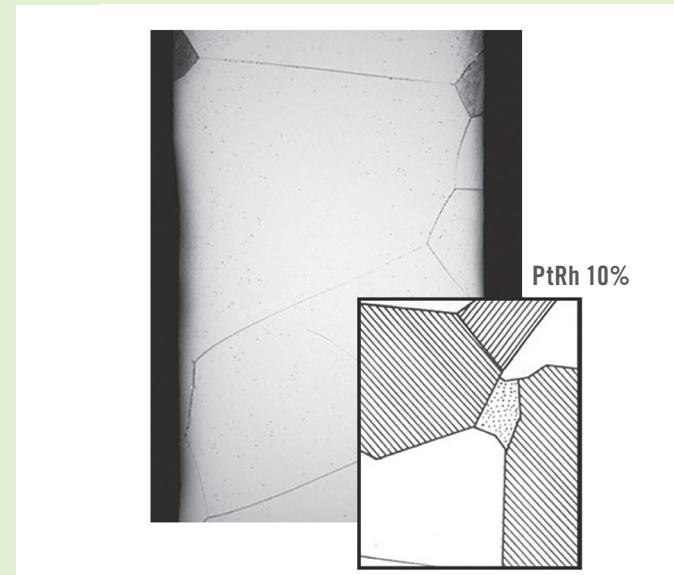
Get to know:

Our DPH Material Portfolio

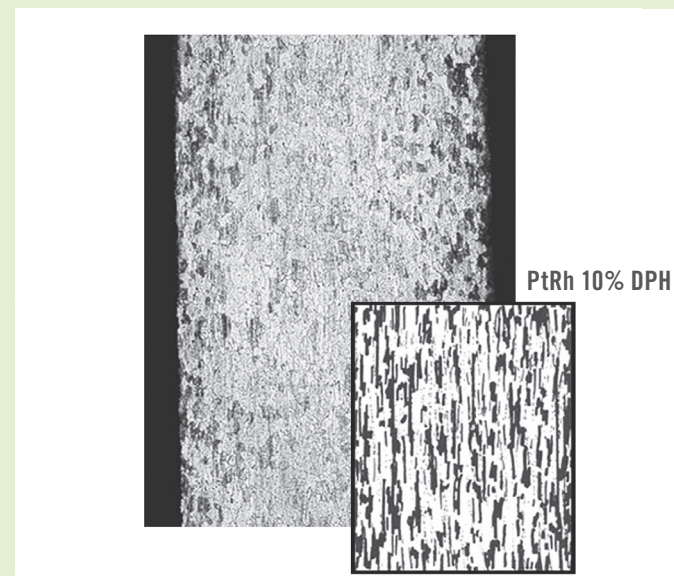
Dispersion Hardened Alloys

- Low Rhodium (Pt and PtRh5) **full-value substitute for PtRh10 and PtRh20** alloys
- Typical high corrosion resistance of DPH materials
- Featuring high resistance against grain growth
- Highest ductility – well-suited for temperature fluctuation, heat up and cool down phases
- Largely maintaining its properties after welding

Coarse Grain Structure Of Standard Alloys



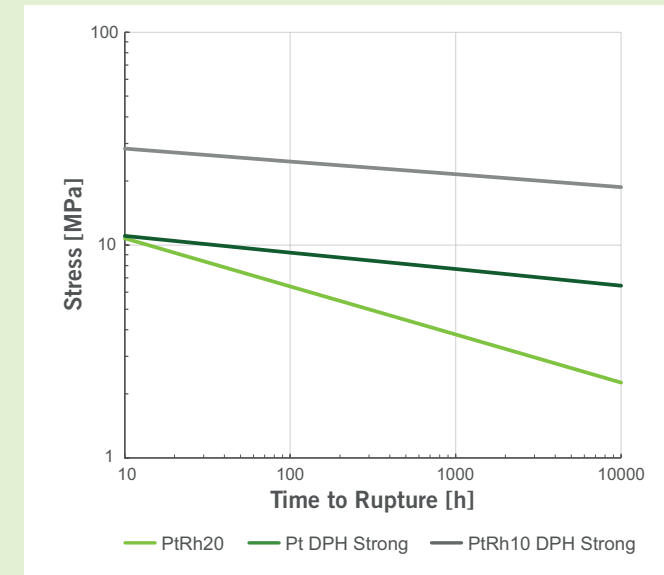
Stable Fine Grain Structure (1600 °C, 30 h)



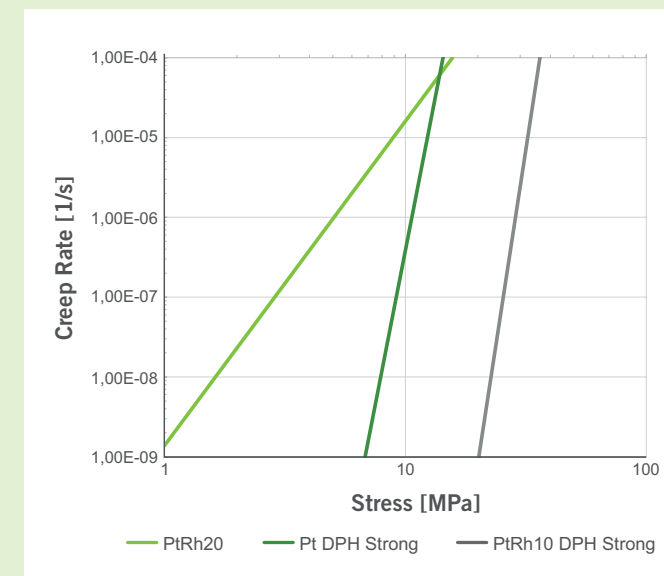
DPH Strong Alloys

- Proven in glass industry
- Key applications: hollow stirrer in display applications
- Increased **rupture strength by 100 %**
- Perfectly suited for high stress applications with little allowance for deformation e. g. bushings or stirrers

Rupture 1400 °C



Norton 1400 °C



Easy access:

Our Material Database

Suitable precious metals and alloys are listed in the Heraeus Material Database which offers highest efficiency in material choice:

- **Quick and easy access:** no registration required, browse materials right away
- **Transparency:** find the right material by setting filters, e.g. applications
- **Comparability:** compare up to 4 materials and find out how they perform, e.g. electric resistivity, Young's Modulus, thermal conductivity



Discover our products in detail!

Need personal advice?

Contact our experts at Heraeus



Get in touch with our sales team!