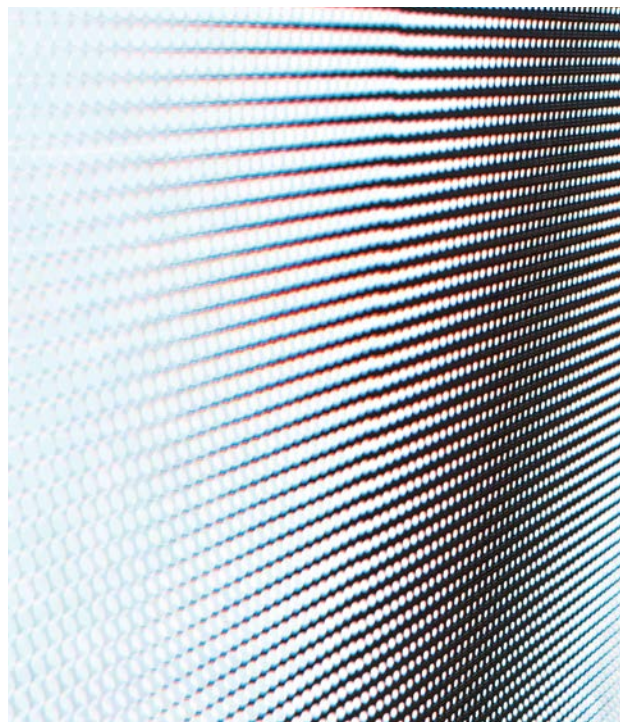




We Make Your Glass Precious

Engineering Your Process With Innovative Precious Metal Solutions

From Material to Application

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

Engineered for Glass Production

Precious Metals and Equipment

A wide range of precious metals and alloys is available to meet the diverse requirements of glass production. The right material is a key factor in achieving optimal performance and product quality. Heraeus manufactures a variety of equipment for the glass industry, including:

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



AI-assisted product visualization based on a real product image.

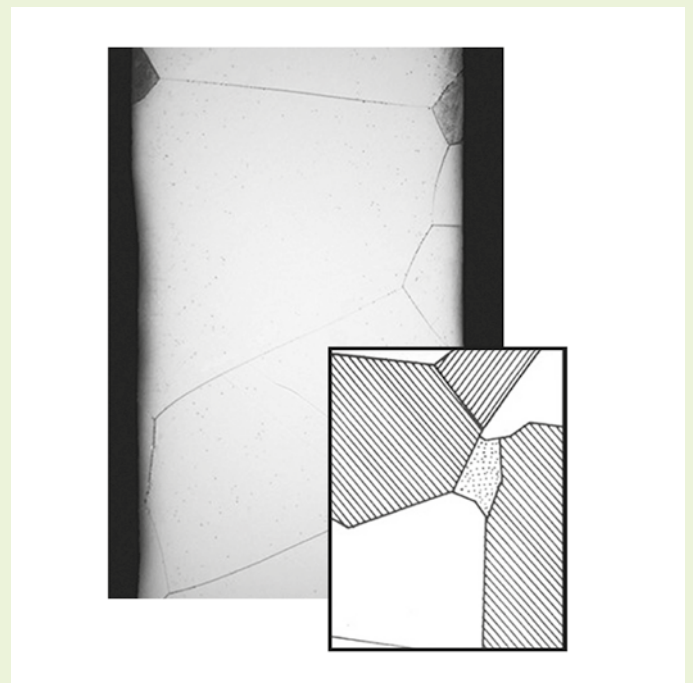


Get to Know the DPH Portfolio

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

Coarse Grain Structure Of Standard Alloys



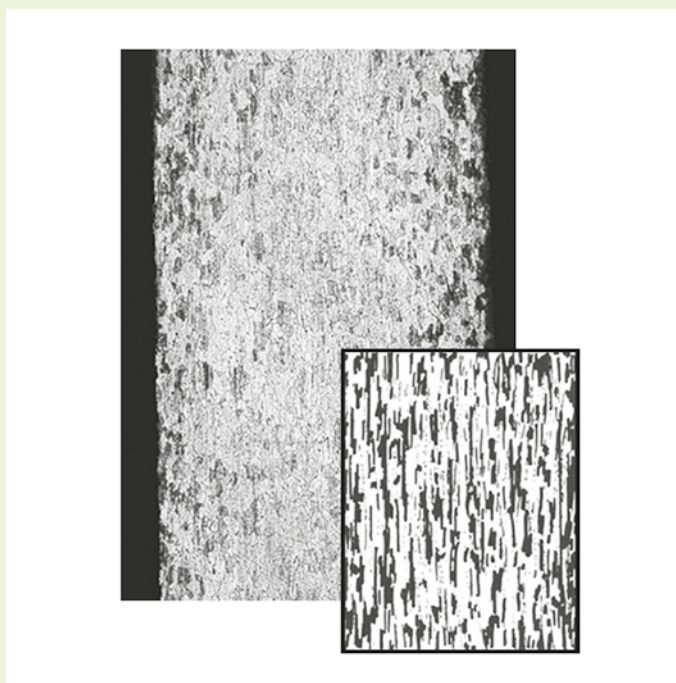
PtRh10

DPH Strong Alloys

- Increased rupture strength by 100 %
- Very high creep strength with good ductility
- Perfectly suited for high stress applications with little allowance for deformation
- Key applications: hollow stirrer in display applications

- High ductility – well-suited for temperature fluctuation, heat up and cool down phases
- Largely maintaining its properties after welding
- Available as Pt and PtRh alloy

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



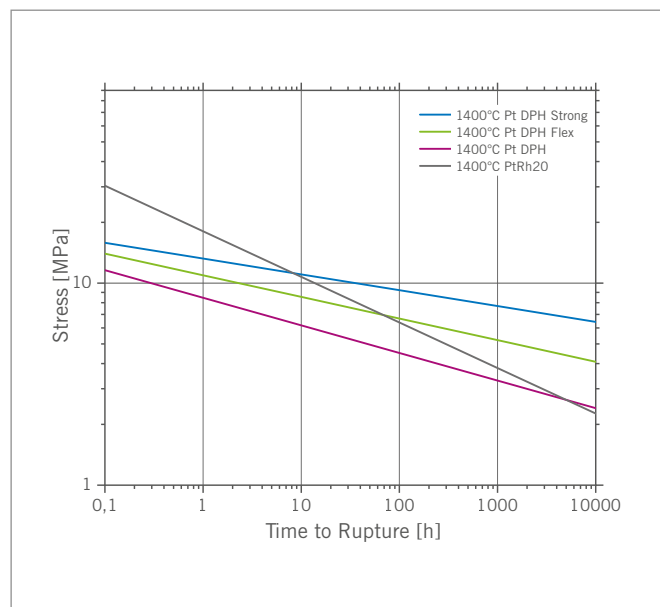
PtRh10 DPH

DPH Flex Alloys

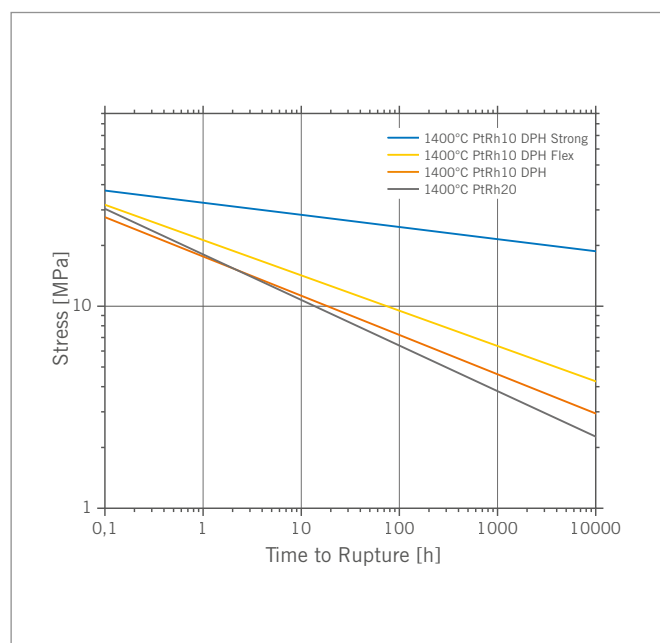
- Improved creep strength (up to 65 %) compared to standard DPH
- High ductility with high creep strength
- Perfectly suited for medium stress applications with some allowance for deformation
- Key applications: stirrer cells or crucibles for glass melting purposes

DPH Strong and Flex Alloys compared to Standard Material

Rupture Pt DPH alloys 1400 °C



Rupture PtRh10 DPH alloys 1400 °C



Need personal advice?
Contact the experts at Heraeus

Get in touch with the sales team!

Easy Access to Materials: Heraeus Material Database

Suitable precious metals and alloys are listed in the Heraeus Material Database, supporting efficient material selection:

- **Quick and easy access**
No registration required. Browse materials immediately.
- **Transparency**
Find suitable materials using filters, for example by application.
- **Comparability**
Compare up to four materials based on technical properties such as electrical resistivity, Young's Modulus, and thermal conductivity.



Discover the product range!