

### PtIr20

#### Hera 174

##### General information

Applications	contacts, electrodes, sliding contacts, spark plug electrodes, Medical wire, probe needles
Product Forms	wire
Density, g/cm <sup>3</sup>	21.7
Melting Range, °C	1830 - 1855

##### Forming Processes

Age Hardenable	Yes
Material Behaviour	ductile
Forming Process	formable, machinable, can be roll clad

##### Chemical Properties

Corrosion Resistant	
---------------------	--

##### Physical properties

Conductivity, min., % IACS	5.38
Conductivity, max., % IACS	5.55
Young's Modulus, GPa	255
Modulus of Rigidity, GPa	86

Temper	Annealed	Work Hardened	Property Range
Hardness, HV	190	300	190 - 300
Tensile Strength, MPa	570	940	570 - 940
Yield Strength, MPa	380	920	380 - 920
Elongation, %	21	2	2 - 21

##### Contact

precious.metals@heraeus.com | www.heraeus-precious-metals.com  
 Heraeus Deutschland GmbH & Co. KG | Heraeusstrasse 12-14 | 63450 | Hanau | Germany



Looking for more data?

The information in this data sheet contains only general information on the use of our products or examples for their application. They do not release the customer from a careful inspection of the delivered product for its fitness for the customer's particular purpose of use. Any customer's special requests regarding the particular use of a product will only be authoritative if Heraeus has confirmed to the customer in writing at the time of conclusion of a corresponding contract that the product delivered is fit for the customer's intended use. Heraeus, therefore, does not guarantee the correctness and completeness of the information regarding the customer's intended use. The customer's purchase will be governed exclusively by the written order confirmation of Heraeus and the Heraeus General Terms of Sale and Delivery, which are available at [www.heraeus.com/gtc](http://www.heraeus.com/gtc). This data sheet may be subject to changes at any time.