



Technical data for thermowell :

- **X 10Cr Al24, MNo. 1.4762 - AISI 446**
For temperatures max 1200°C in air
High resistance to sulphureous gases
Low resistance to nitrogenated gases
- **X 18Cr Ni28, MNo. 1.4749 - AISI 446**
For temperatures max 1100°C in air
Extremely high resistance to sulphureous gases
Low resistance to nitrogenated gases
Good resistance to lead and tin melt
- **MNo. 2.4816 - INCONEL 600**
For temperatures max 1100°C in air
Good general resistance to corrosion and to tension crack corrosion. Excellent resistance to oxidation.
Not recommended with gases containing CO2 and sulphur above 550°C. Excellent ductility even after long term use.
- **KER 610**
For temperatures max 1600°C in air
Medium resistance to temperature changes
Gas tight, high level of fire resistance, susceptible to impact
Aluminium oxide content >60%
- Characteristics of ceramic materials according to DIN 40685 for protecting tubes and inner tubes
- Ceramic KER 710 with a cover of platinum alloy (especially for glas melting plants). The life-time of thermocouples can be increased in many cases, if an additional gas-tight ceramic inner protecting tube is utilised.
- For mechanical difficult applications (high pressure, etc.), all our thermowells are drilled from bar stock material.
- For extremely corrosive working conditions, protecting tubes can be supplied in special materials such as :
- MNo 1,4571, Inconel 600, Incoloy 800, Hasteloy C, Hasteloy B, Titanium, etc.
- Steel with a cover of tantal.
- Rust-resistant steel with a cover of Teflon.
- Armours against abrasion for different temperature.
- **X 15CrNi Si2520, MNo. 1.4841 - AISI 314**
For temperatures max 1150°C in air
Low resistance to sulphureous gases
High resistance to nitrogenated, low-oxygenous gases
High long-time rupture strength
- **MNo. 1.4571 - AISI 316 Ti**
For temperatures max 800°C in air
Resistance against corrosion from acids
Resistance against pitting, salt water and aggressive industrial influence.
- **KER 530**
For temperatures max 1650°C in air
Resistant to sudden temperature changes
Fine porosity, not gas tight, susceptible to impact
High aluminium oxide content >80%
- **KER 710**
For temperatures max 1900°C in air
Low level of resistance to temperature changes
Very gas tight, extremely fire resistant
Susceptible to impact
Pure aluminium oxide >99,7%