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HTX™ platinum thermocouple wire

Extra strength, exceptional accuracy



Johnson Matthey
Inspiring science, enhancing life

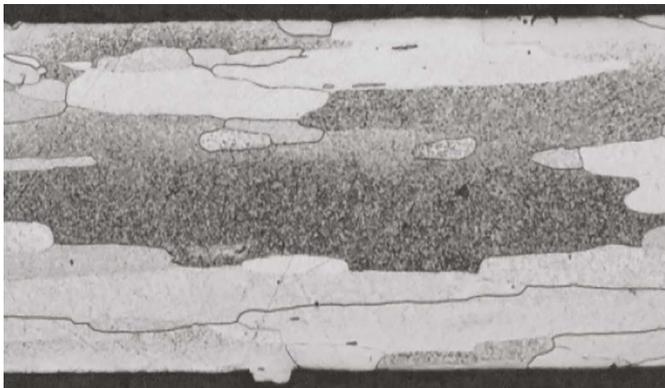
HTX™ platinum thermocouple wire

Through our latest innovation we have developed HTX™ platinum thermocouple wire: a high strength thermocouple wire that withstands the most demanding applications, particularly those seen in the semiconductor industry.

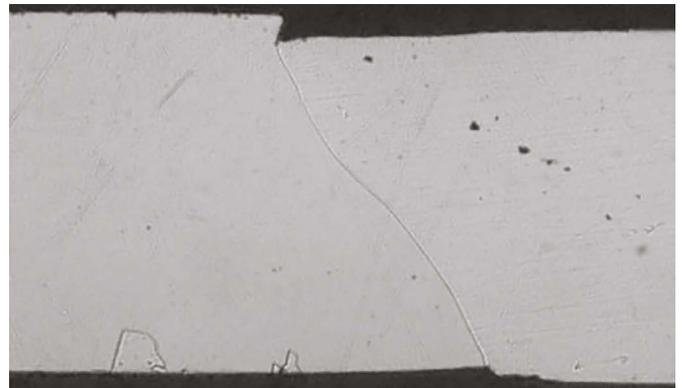
We are able to stabilise the grain boundaries in our HTX™ wire to give it outstanding strength compared to our standard platinum wire. This stabilisation prevents grains occupying the complete wire diameter and stops bamboo structures developing from the grains being easily displaced. Containing the grains allows the temperature measurement to be maintained, offering reliability in harsh environments.

HTX™ wire provides superior durability. It maintains excellent functionality after 1,200 hours at 1400°C with 400psi tensile loading during accelerated life testing. It also shows exceptional measurement accuracy, meeting IEC 60584-1 class 1 tolerance.

Our HTX™ wire is available as type R and type S thermocouples, and we can manufacture it in any diameter within our typical size range to meet your specific requirements.



HTX™ Pt wire



Standard Pt wire with grain boundary movement

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