



The ultimate resource for **ACT Coated Thermocouples**

PRODUCTION AND SERVICE OF ACT COATED THERMOCOUPLES



ACT thermocouples are produced using a flame spray technology to deposit a thin coating of platinum, or its alloys, onto an alumina sheath. Standard thermocouple wires, such as type B, R or S, are placed inside the coated sheath, which runs the full length of the assembly.

KEY FEATURES AND BENEFITS:

Service life: ACT assemblies have been proven to last full furnace campaigns of up to 7 years

Coating thickness: The standard coating thickness is 200 microns, but this can be thickened in areas where protection is needed most, such as at the glass line (see picture below).

Significant cost savings: The platinum weight on each assembly is reduced by 40 - 60% when compared to a thermocouple with a platinum thimble.

Weld-free designs: Rh/Pt thimbles must be welded onto an assembly. ACT coatings are deposited directly onto alumina so there is no risk of the thimble coming loose and falling into the glass.

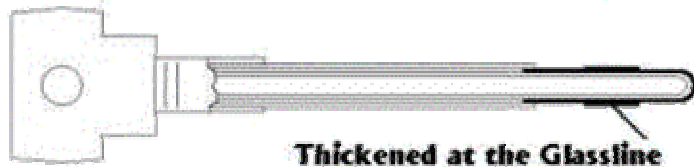
Stability at high temperatures: ACT coatings are extremely robust in high temperature applications such as in the crown (separate technical update on grain structure available).

Design: We can supply to three standard designs, corresponding to three different sheath sizes.

Installation: Installation instructions are included with every ACT thermocouple supplied.

Refining: All ACT coatings can be refined after service and the platinum can be reused for future coatings.

Standard ACTtm Thermocouple Assembly



FLOKAL B.V.

Dorpenweg 27 5371 KS Deursen. The Netherlands.

Tel +(31).486.41.6240 Fax +(31).486.41.4514, www.flokal.com email info@flokal.com