

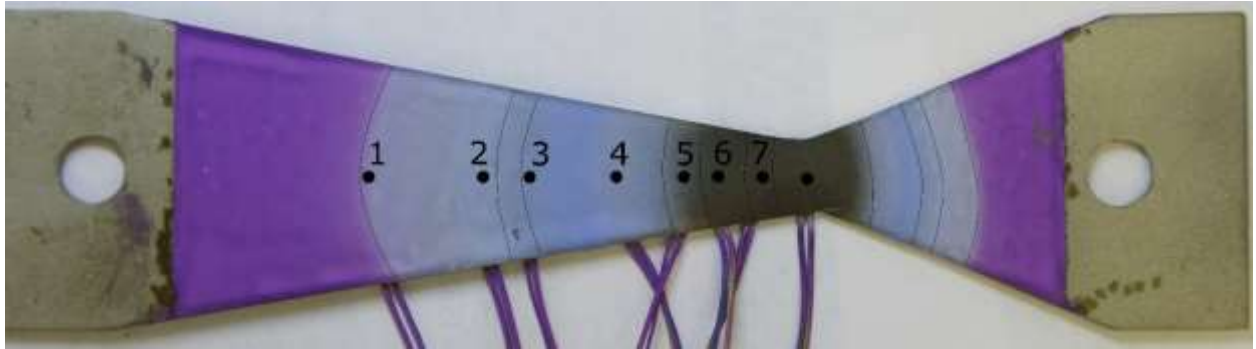
Thermal indication Paint TSP-M02

Irreversible thermal indicator paint TSP-M02 is used to control and measure the temperature of heated surfaces. It has 7 temperature transition points, is easy to use and covers a wide temperature range of experiments - from 490°C to 925°C.

The paint is based on temperature sensitive pigments such as cadmium sulfide and xylene. Packing volume - 500 ml/bottle.

A thin uniform layer of paint is applied on the prepared test surface using a brush or sprayer. The recommended layer thickness is 25 µm. After application, the paint is dried out in an oven at 220°C for 30 minutes or at room temperature for 24 hours.

Shelf life and storage conditions: 24 months from the date of production at 24°C in a closed package, in a dry, dark and cool place. Below is an example of testing a sample made of CrNi50BCuTeAlBe material after heating to 935°C. The specified sample heating time is 420 s. XA type thermocouples were used to measure the temperature.



Sample after heating to 935°C with conditional ranges of color transitions

Table 1 - Temperature of TSP-M02 thermal paint color transitions, ° C

Thermocouple #	1	2	-	3	4	5	6	7
T, °C	482	590	-	638	754	833	877	916
Color transition range	0	1	2	3		4	5	6
Temperature range, °C	Up to 490	From 490 to 615	From 615 to 630	From 630 to 827		From 827 to 865	From 865 to 905	From 905 to 925

Below is a photograph of TSP-M02 paint (right) comparison with its closest analog - MC470 (left)



Experimental data shows sustainability of the results, obtained with TSP-M02 paint, and proves it convenience for examination of the samples with complex shapes and/or large sizes at high temperatures.