

## KC005M - THERMAL SHOCK RESISTANCE

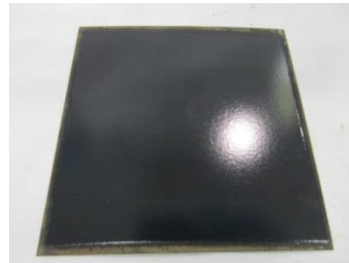
### 1 – SAMPLING

We had prepared some Coated Sheet Steel and Extruded Carbon Steel Tubes cleaned the with an high chemical resistance ceramic coating:

KC005M

Thickness – 100 to 150  $\mu\text{m}$

Note: Sharp edges have been corrected to avoid defects



### 2 – PROCEDURE

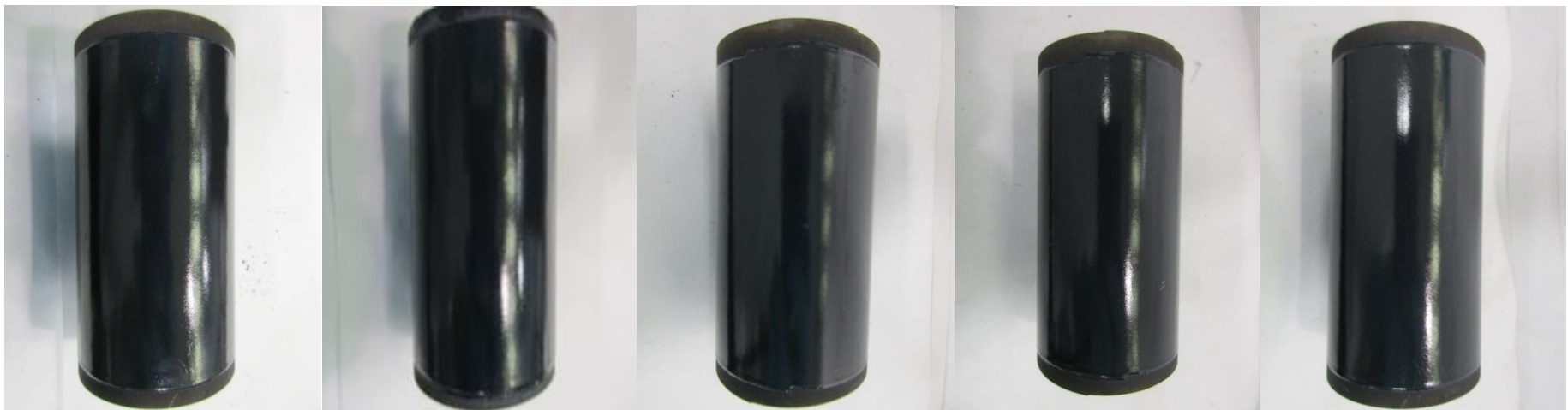
For each cycle the following steps are performed:

- ✓ Samples are introduced (coated sheet steel and tube) in a furnace 450°C 30'
- ✓ Samples taken from the furnace and directly introduced in a container with cold water 20°C.
- ✓ Drying after 5'
- ✓ Visual Inspection after 30'
- ✓ If the coating shows no damage , goes to the next same cycle.

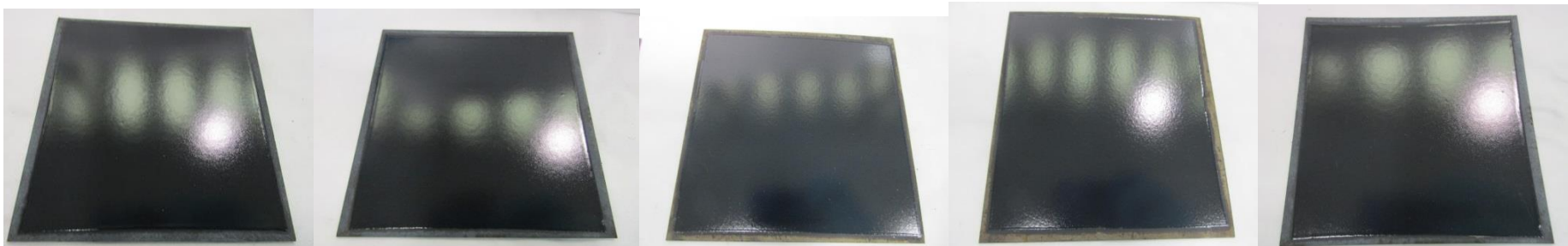
### 3 – RESULTS

*AFTER 10 CYCLES - NO CERAMIC COATING DAMAGE IN ANY POINT*

*We consider very unlikely that more cycles will bring more valuable information*



-----CYCLE 1 -----CYCLE 2 -----CYCLE 3 -----CYCLE 4 -----CYCLE 5-----





-----CYCLE 6-----CYCLE 7-----CYCLE 8-----CYCLE 9-----CYCLE 10-----

