

APPLICATION SHEET

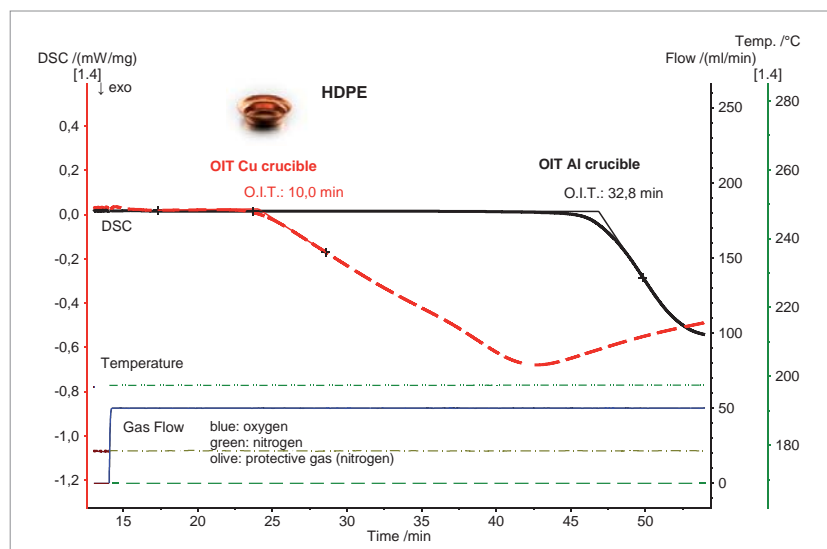
DSC Accessories – Special Crucibles for OIT Tests

Influence of the Crucible on the Oxidative-Induction Time (OIT)

The oxidative-induction time (OIT) can be determined in standard aluminum or in open copper crucibles in accordance with ASTM D3895.



Special crucibles made of copper and aluminum for DSC tests, see also *Accessories for Differential Scanning Calorimeters and Thermobalances*



Comparison of the oxidative-induction time in open copper and aluminum crucibles, determined under isothermal conditions at 180°C in the DSC 204 **F1 Phoenix**®

This plot represents an OIT measurement on HDPE carried out in open copper (red) and Al (black) crucibles, respectively. It can clearly be seen that, under isothermal condi-

tions, oxidation of HDPE begins approximately 23 min earlier in the copper crucible than in the Al crucible.