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Thermal protector „sunshade”

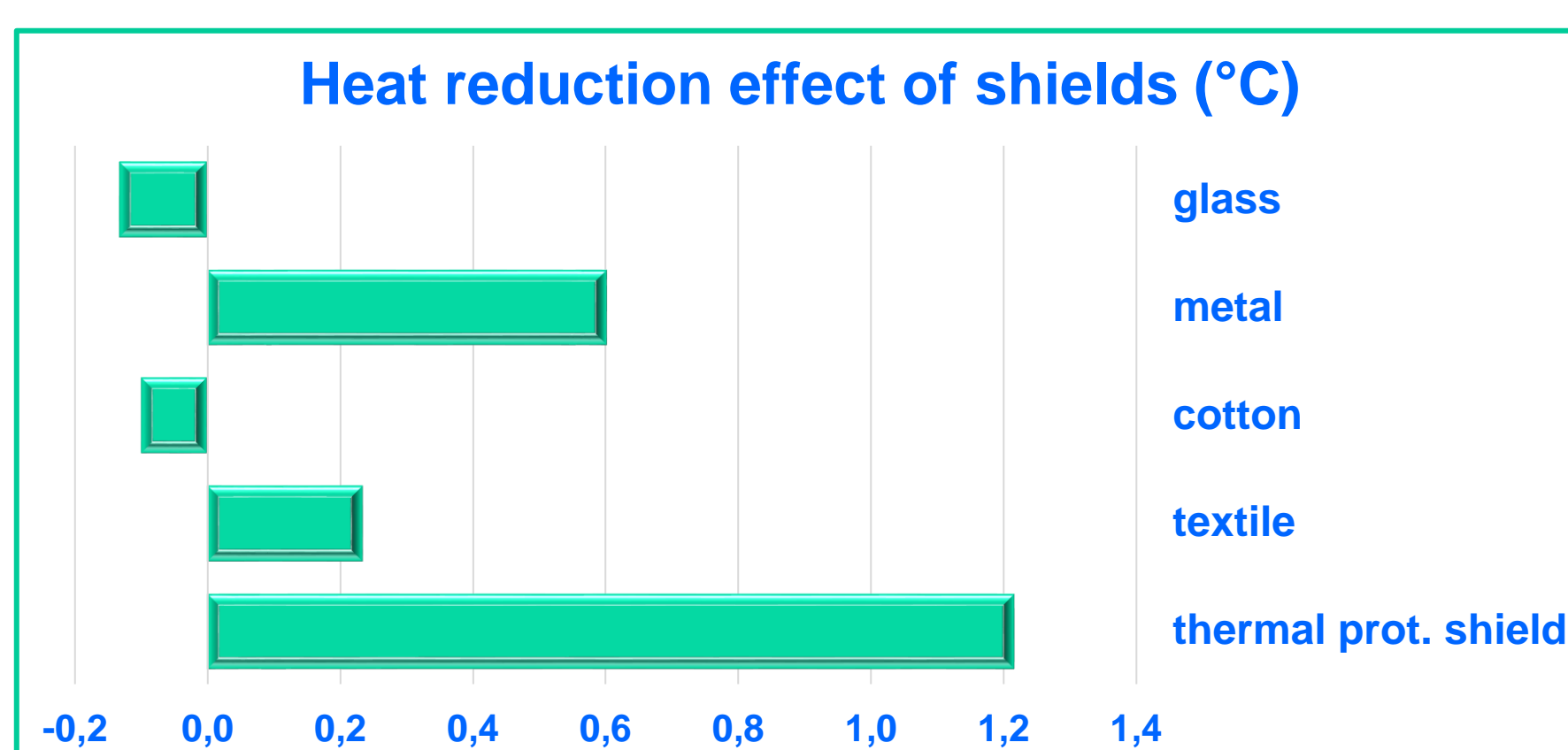
Space walk in classroom – an experiment

Skylab, the first American space station, lost its thermal protection shield during the launch in 1973. Engineers and scientists developed an emergency repair procedure.



We use this event to conduct experiments in physics workshops where students develop materials for heat shield.

After space walk in the classroom we study thermal radiation, absorption and reflection



Our student-groups do independent measurements to test different materials for heat shield.

Students discover through their own exploration what radiations space objects are exposed to while on near-Earth orbits. They also learn about heat radiation incident to and emitted by Earth.