

Mould and tool making

Areas of application of ISOCOS insulation materials:

- **Insulation of tools and moulds for injection mould machines, presses, extrusion and blow moulding systems**

In mould and tool making, precise execution is key. The selection of the insulation materials has a decisive influence on the quality of the final products. Especially in systems that work with fast cycles where the tool is cyclically subjected to high loads, the insulation must have precisely defined material characteristics with respect to compressive strength, temperature resistance and dimensional stability.

We manufacture quality products with precisely defined material properties that are tested according to the applicable standards: for pressure-transmitting insulation, which provides the thermal isolation of the tool from the machine, as well as for the external insulation of the system, which is essential for uniform heat distribution in the tool.

In mould and tool making in particular, lead times can be short, as tool planning schedules are typically tight. As a supplier, we are prepared for this situation. From data transfer to the machinery to the exact production of three-dimensional work pieces to fast, on schedule delivery.

→ [Woodworking](#)

ISOCOS products for mould and tool making

Product name	Operating temperature (long term)	Compressive strength at 23 °C
cosTherm® 1600	210 °C	600 N/mm ²
cosTherm® 4000	200 °C	320 N/mm ²
cosTherm® 4000 A	200 °C	100 N/mm ²
cosTherm® 4000 HD	200 °C	500 N/mm ²
cosTherm® 4000 plus	230 °C	450 N/mm ²
cosTherm® E.230 HD	250 °C	750 N/mm ²