

FRIALIT®-DEGUSSIT® HIGH-PERFORMANCE CERAMICS FORMING TOOLS

Application:

Sheet-metal spinning

Material:

Zirconium Oxide **FRIALIT FZM** and
Silicon Nitride **FRIALIT GP 79**



FRIATEC works photo

Metal forming can be done by a multitude of different methods. Besides turning, milling, casting and rolling, sheet-metal spinning is an effective way to form metal.

Cold or hot forming creates cups, profiled sleeve or other rotationally symmetrical shapes within no time. Advanced machinery forms even complex geometries at high speed.

The serial production for metals with high hardness stresses forming rolls to the limits of their capacity. With the use of the ceramic materials **FRIALIT FZM** and **FRIALIT GP79** the service life and precision of the forming tools increase significantly, even when forming large quantities by cold or hot forming. At the same time, the need for lubricants is reduced thanks to the excellent sliding properties of the ceramic materials. The low adhesion tendency of polished ceramic surfaces reduces the adhesion of material residues on the tools.

- extreme hardness
- good resistance to thermal shock
- low adhesion tendency
- good dimensional stability

Competence plus responsibility

Our clients rightly expect first class service with sustainable value.