



D E F E N C E

**Pellets for  
worldwide efficient  
protection**

CA220105/EN/2305/100/IM



# Material data

# facts figures

## Pellets for worldwide efficient protection

CeramTec produce a range of Standard and customized designed Pellets for defences uses for land, sea and air applications.



### Typical Materials

#### AL2O3

Material	96	98	99
Hardness HV1	12.5 GPa	14.3 GPa	15 GPa
Density	3.75 g/cm <sup>3</sup>	3.8 g/cm <sup>3</sup>	3.87 g/cm <sup>3</sup>
Sound velocity	10.000 m/s	10.400 m/s	10.300 m/s

#### SiC

Material	FC	FC II
Hardness HV1	23.0 GPa	23.0 GPa
Density	3.10 g/cm <sup>3</sup>	3.15 g/cm <sup>3</sup>
Sound velocity	11.800 m/s	12.000 m/s

Ballistic materials are characterized by specific parameters, some of which are summarized in the adjacent table. The values of these parameters are determined on standardized specimen according to international standards or CeramTec internal specifications. Properties of series parts can deviate. Therefore these parameters are intended to be used as design guidelines for ballistic applications.

### Typical Shapes

