



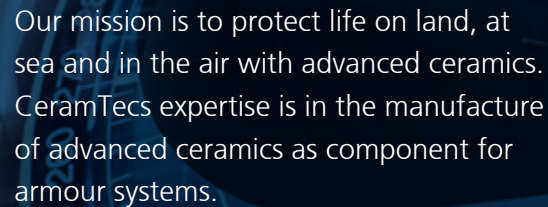
CeramTec



DEFENCE



Armour Applications Material



Our mission is to protect life on land, at sea and in the air with advanced ceramics. CeramTecs expertise is in the manufacture of advanced ceramics as component for armour systems.

Ceramic materials and material properties for armor applications

Al₂O₃

Standards	Dimensions		Thickness
Tiles	100 x 100 mm ²		4-40 mm
Tiles	50 x 50 mm ²		3-25 mm
Hexagons	Key 20, 25, 30		3-25 mm
Hexagons	Key 40		3-25 mm
Hexagons	Key 60		6-45 mm
Pellets	Various		Various
	Other/different sizes on request.		
Services	customized layouts		
Material (Al ₂ O ₃)	96SB	98SB	99SB
Hardness HV1	12.5 GPa	14.3 GPa	15 GPa
Density	3.75 g/cm ³	3.8 g/cm ³	3.87 g/cm ³
Sound velocity	10.000 m/s	10.400 m/s	10.300 m/s

SiC

Standards	Dimensions	Thickness
Tiles	50 x 50 mm ²	3-25 mm
Hexagons	Key 20, 30	3-20 mm
Hexagons	Key 40	3-40 mm
Pellets	Various	Various
	Other/different sizes on request.	
Services	customized layouts	
Material:	EFC 4	
Hardness HV1	23.0 GPa	
Density	3.12 g/cm ³	
Sound velocity	11.800 m/s	

CeramTec-EETEC GmbH

An der Burg Sülz 17
53797 Lohmar, Germany

Phone +49 (0) 22 05.9200 - 0
Email info@etec-ceramics.de

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.