

CERACARB® and SIGRASIC® - Bullet-Proof Ceramics

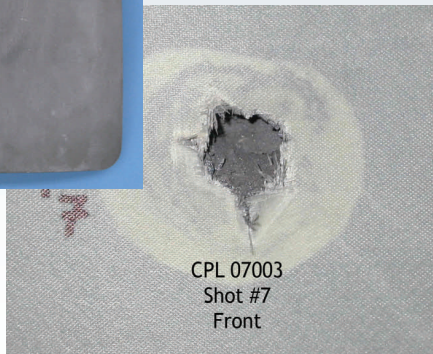
Customized protection against ballistic threats

Structural components made of CERACARB or SIGRASIC ceramics are new products supplied by HITCO. The bullet-proof ceramic consists of a carbon fiber-reinforced silicon carbide matrix. These materials are specifically designed to resist ballistic projectiles.

What do you need to protect?

These materials are available in a variety of flat and shaped parts that can be integrated in to a protection system.

CERACARB and SIGRASIC offer major advantages over conventional bullet-proof materials



Properties	CERACARB-RB + backing	SIGRASIC + backing	Ballistic Steel + backing	Aluminum Oxide + backing	Boron Carbide + backing
Weight per unit area	+	+	-	+	++
Complex Shapes	+	+	⌘	-	-
>Changes in thickness	+	+	⌘	-	-
>Complex structure	++	++	-	-	-
Multi-hit capability	yes	yes	yes	With reservations	With reservations
Price of curved System	++	+	+	+	—

++ Very Good + Good ⌘ Neutral - Poor — Very Poor

Other significant system benefits

- Protection against Kinetic energy (ballistic) projectiles
- Lightweight material
- Multi-hit capability
- Large dimensions
- Complex shaped structures
- Adjustable to existing structures

Possible Applications

- Armor plating of: Vehicles, aircraft and ships
- Tactical shelters
- UAV

Technologies & Innovation

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CERACARB[®] SIGRASIC[®]

Bullet-Proof Ceramics

