



上海召明实业有限公司
Shanghai Vital Industrial Co., Ltd.

Shanghai Vital Industry Co., Ltd—Catalogue

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Factory Add.: Industrial Park, Jiyuan City, 459000, Henan Province, China.



1.1 Vital® Advanced Armor Ceramic Tiles

Shanghai vital offers lightweight, superior-quality torso plates in a wide variety of shapes, sizes, thicknesses, and materials including:

- **High-Density Aluminum Oxides**

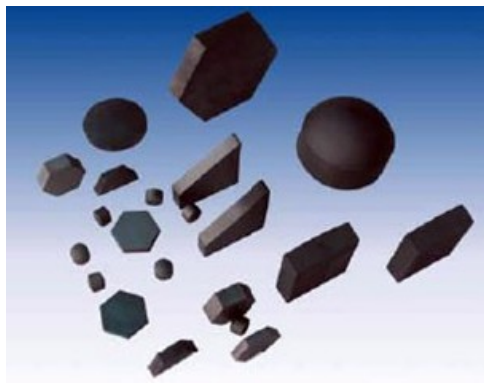
- Shanghai Vital offers extremely high-volume, production capacity
- Standard sizes and shapes including all SAPI sizes.
- Custom thicknesses available from 3mm and up



Al ₂ O ₃ Content [↕]	99% [↕]
Density [↕]	≥3.90 g/cm ³ [↕]
Color [↕]	Yellowish [↕]
Bending Strength [↕]	≥320 [↕]
Vickers Hardness HV 5 [↕]	≥1500 [↕]
Max. Working Temperature [↕]	1700 [↕]

- **Silicon Carbides**

- Superior hardness for advanced threats
- Lower weight with higher performance benefits



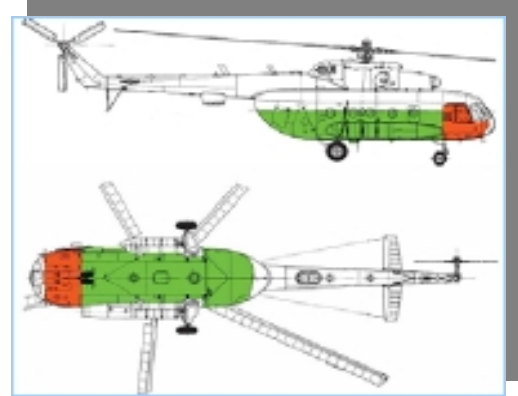
SSiC (Pressureless Sintering) [↕]	↕
Density [↕]	≥3.14 g/cm ³ [↕]
Color [↕]	black [↕]
Bending Strength [↕]	360MPa [↕]
Hardness HV [↕]	20 to 24.5 GPa [↕]
Max. Working Temperature	1600 ° C [↕]

Ceramics offer many advantages:

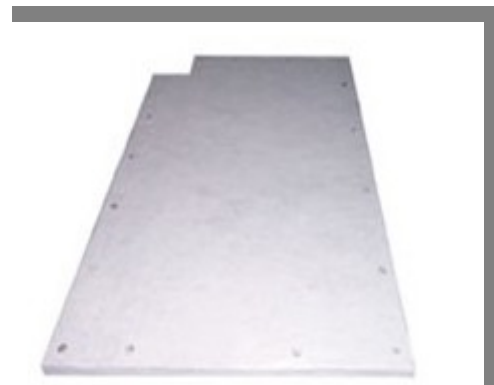
over conventional materials. Our specially formulated ceramic armor materials provide:

- Low weight
- High hardness
- Controlled, uniform microstructure
- Dimensional stability over wide temperature range
- Compatibility for use in finished armor systems with proven ballistic performance for National Institute of Justice (N.I.J.) and international design standards

2.1, Vital® Vehicle Armor Panel



Effective against IEDs, EFPs, land mines and grenades. Stand-alone protection against AK47 MSC, NATO Ball threats. Ability to stop armor piercing (AP) rounds. Applications include spall liners and armor panels for military vehicles, police vehicles, VIP vehicles, transporters, aircraft, border patrol, security vessels, and helicopters.



FEATURES:

•Lightweight

Significantly lighter than conventional panels, helping to minimize the effect of armor weight on a vehicle's center of gravity, speed and maneuverability.