



XeraBond-AP2

About XeraCarb

XeraCarb Ltd is an innovative UK company, founded in 2011, which manufactures high performance ceramics for body and vehicle armour and other demanding technical applications.

XeraCarb materials are suitable for use in hard plate armour solutions suitable for protecting against some of the most aggressive armour piercing threats.

XeraBond-AP2

XeraBond-AP2 is manufactured from high purity raw materials with a unique set of additives to develop high hardness toughness and strength. The production technique allows for the manufacture of complex shapes of varying thicknesses.

Xerabond-AP2

XeraBond-AP2 has a high density and is homogeneous. The unique bonding phase is developed during manufacturing process to give the ballistic performance necessary for both body and vehicle armour protection.

Typical Properties

Chemical Analysis:

SiC	67%
Sialon	30%
Other	3%

Physical Data:

Bulk Density	2.80-2.85 g/cm ³
Apparent Porosity	7-9%
MOR at 20°C	200-220 MPa

(All the data quoted has been determined by BS EN ISO standard methods on samples made in the laboratory.)

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Ballistic Testing

XeraBond-AP2 has been subject to a number of ballistic performance trials in which it has been tested alongside other commercial armour materials for both body and vehicle armour.

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