

# Armcarb Coating

'For maximum wear life'

## Data Sheet



## What is Armcarb?

This is our high-end long life option which can extend wear life by up to *seven* times compared to a fully heat treated boron component.

The components have a tungsten carbide plate or tile brazed onto the surface. The alloy braze is melted at high temperature in a localised area using induction heating.

## We have two tile grade options:

| AC1                    | GRADE                      | AC2                   |
|------------------------|----------------------------|-----------------------|
| 1050 HV                | <b>HARDNESS</b>            | 1200 HV               |
| 16.3N/mm <sup>2</sup>  | <b>FRACTURE STRENGTH</b>   | 15.2N/mm <sup>2</sup> |
| Coarse                 | <b>GRAIN TYPE</b>          | Medium to fine        |
| High impact resistance | <b>KEY CHARACTERISTICS</b> | High wear resistance  |

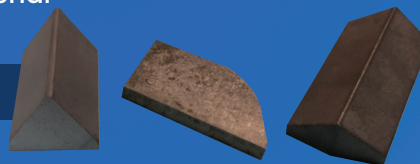
Both Armcarb grades have a cobalt addition to help bind the raw tungsten together. Our grades of Armcarb are defined by their chemistry and technical requirements including flatness, hardness and size. The Armcarb specification ensures wear life is maximized and reduces the risk of early failure or tile fracture.

## Armcarb's Key Strengths

- ✓ Any heat affected zone is minimised, reducing premature wear life
- ✓ Low risk of tile fracture: tiles sit on a machined pocket, so there are no gaps between tile and part
- ✓ Impact strength: our unique three layer low temperature braze comprising different elements allows tiles to sit on a cushion, reducing impact shock
- ✓ Reduced risk of tile loss: the induction heat is maintained at a consistent temperature, minimising the flow and loss of braze material

### Shaped Armcarb Carbide Tiles

- ✓ Improve soil flow and increase wear life



### Armcarb Flat Button Type Carbide Tiles

- ✓ Ideal for eliminating secondary wear issues, typically behind the first area of wear



Please do not hesitate to contact us if you require further explanation or data.

Call now on  
**0114 285 6000**