

## Ni-Fuse NXT

### Nickel-based hardfacing powders with crushed sintered tungsten carbides

Ni-Fuse NXT powders are designed to **protect new parts and restore worn parts** exposed to abrasive wear. They combine a self-fluxing nickel-based matrix with crushed sintered tungsten carbides.

**A cost-effective next-generation solution**, Ni-Fuse NXT is an alternative to the Ni-Fuse WC range, offering a balance between wear resistance and hardfacing cost for common industrial applications.

### PROPERTIES & APPLICATIONS

The Ni-Fuse NXT range offers the best **balance between abrasion protection and hardfacing cost**. Its crushed sintered tungsten carbides provide a cost-effective alternative to the carbides used in the Ni-Fuse WC range.

Available with **35 to 60% carbides**, it is intended to protect parts used for conveying, mixing and processing abrasive materials.

**Typical applications:** screws, flights, mixer blades, scrapers and anti-rotation elements, particularly in the brick & tile industry, recycling, mineral processing and abrasive material handling.

### CHEMICAL COMPOSITION

| References                | Matrix hardness<br>HRC | %<br>Matrix | Matrix<br>particle size<br>$\mu\text{m}$ | Typical WC<br>microhardness<br>HV 0,1 | %<br>WC | WC particle<br>size<br>$\mu\text{m}$ |
|---------------------------|------------------------|-------------|------------------------------------------|---------------------------------------|---------|--------------------------------------|
| Ni-Fuse <b>603515</b> NXT | 60                     | 65          | 20–106                                   | 1 500–1 800                           | 35      | 100–150                              |
| Ni-Fuse <b>604015</b> NXT |                        | 60          |                                          |                                       | 40      |                                      |
| Ni-Fuse <b>605515</b> NXT |                        | 45          |                                          |                                       | 55      |                                      |
| Ni-Fuse <b>606015</b> NXT |                        | 40          |                                          |                                       | 60      |                                      |

### APPLICATION

Ni-Fuse NXT powders are applied using our **Ni-Fuse Spray™ torch**, supplied with powder and fitted with an adapted lance. **Spraying and fusing are carried out simultaneously** in a single operation on a previously prepared surface.

Fusion of the nickel matrix ensures bonding of the coating to the substrate and anchoring of the crushed sintered tungsten carbides.

### PACKAGING

5 kg container