

Ni-Fuse

Nickel-based hardfacing powders

Ni-Fuse powders are designed to **protect new parts and restore worn parts**, in order to extend their service life.

These **self-fluxing nickel-based alloys** offer four hardness levels to meet surface protection and refurbishment requirements under different operating conditions.

PROPERTIES & APPLICATIONS

The Ni-Fuse range provides protection against **friction wear and corrosion**, with four hardness levels from 18 to 60 HRC.

The hardest grades also provide resistance to abrasion. The flame spray-fuse process allows **thin and uniform deposits**, for protecting or rebuilding surfaces.

Typical applications: mixing and conveying screws, mixer blades and pump bodies, particularly in agriculture, anaerobic digestion, the paper industry and waste treatment.

CHEMICAL COMPOSITION

(% by mass)

References	B	Si	C	Cr	P	Fe	Ni	Hardness HRC	Melting Temp. °C	Density kg/dm ³	Particle size µm
Ni-Fuse 2010	0,6	2		3	2		Balance	18-23	975	4,6	20-106
Ni-Fuse 3010	1,1	3,7			2,1		Balance	28-33	940		20-106
Ni-Fuse 4010	1,8	3,3	0,4	8,1		2,4	Balance	35-40	1100		20-150
Ni-Fuse 6010	2,9	4,5	0,7	15,5	0,1	4,2	Balance	55-60	1040		20-106

APPLICATION

Ni-Fuse 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**, allowing the hardfacing to be completed in a single operation on a previously prepared surface.

PACKAGING

5 kg container

Groupe BMI

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