

## Classifications

EN 14700	EN ISO 14232-1
P Z Ni20	WSC / Ni-SF - 106/20

## Characteristics and field of use

Slicer blades, tools, nozzles, cutting rings, fan blades, transport chains, etc. Particularly suitable for protection against abrasive attack of dust and sand, slimes, abrasive paste etc. Applicable in chemical industry, sewerage treatment, power stations, offshore, foodstuff and food industry etc. For all ferrous metals, such as grey cast iron, cast steel, steel, stainless steel.

Resistant against extreme abrasive wear as well as thermal and corrosion attack. Evenly distributed tungsten carbide grains in a hard matrix.

## Chemical composition in %

NiCrBSi with the addition of tungsten carbide.

## Technical Data (Typical values)

Particle shape	spherical, broken
Grain size range	-106 µm + 20 µm
Apparent density (ISO 3923–2) (g/cm <sup>3</sup> ) typical	6.9
Hall flow (ISO 4490) (s/50g) typical	12
Hardness (matrix):	60 HRC
Recommended coating thickness	Up to 3.0 mm
Melting point (matrix)	1020 °C
Powder consumption per 0.1 mm coat thickness	approx. 1.1 kg/m <sup>2</sup>
Flame adjustment	neutral

## Surface Preparation

The surface to be covered must be metallic clean and free of oil, grease and dust. Machining of the surface as per usual practice. Grit blasting with e.g. electro corundum or silicon carbide (quod vide DIN EN 13507 "Pre-treatment of surfaces of metallic parts and components for thermal spraying").

## Recommendation for machining

Grinding with diamond wheel only.