

Classifications

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

Characteristics and field of use

UTP SIMmelt™ NiBasW60 is a metal/tungsten carbide blended powder for thermal spraying in “Hot” process with fusing for semi and fully mechanized applications. Applicable for hardfacing of surfaces exposed to intensive wear.

Resistance against extreme abrasive wear.
Evenly distributed tungsten carbides in a hard matrix.

Chemical composition in %

Matrix	Tungsten carbides
40	60

Chemical composition of matrix (in %)

C	Si	Cr	Co	Fe	Ni	B	W
0.75	4.1	15.6	6.8	3.4	Balance	3.0	1.0

Technical Data (Typical values)

Particle shape of matrix	spherical
Particle shape of carbides	broken edged
Grain size range	-150 µm + 20 µm
Hardness	60 HRC (matrix)
Melting point	1000 °C

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.