

## Scope

This information refers to silver based contact material with tungsten as the second main component manufactured by infiltration of molten silver into a porous tungsten preform.

## Designation of standard compositions

The tungsten content is designated in weight percent. It can be adjusted between 40 to 80 %.

## Key Features

- lowest arc erosion of all contact materials
- high welding resistance
- low electrical conductivity
- high contact resistance by formation of tungsten oxides as well as silver-tungstates
- poor arc migration properties
- very hard

## Applications

- circuit breakers
- earth leakage breakers
- miniature circuit breakers

## Microstructure

An higher amount of tungsten leads to a more regular distribution of the components.



AgW50

AgW60

AgW70

## Physical Properties

Material	Typical Density [g/cm <sup>3</sup> ]	Electrical Conductivity [m/Ω/mm <sup>2</sup> ]	Hardness [HRB]
AgW40	12,5	41	50
AgW50	13,2	38	80
AgW60	14,0	34	90
AgW65	14,4	32	85
AgW70	14,9	31	90
AgW80	16,0	23	100



AgW