

Infil-bond[™] Infiltrant / Binder Products

Johnson Matthey supplies a range of silver and copper based alloys used as infiltrants or binders in the production of tools for exploration, mining and drilling such as core drills and drill heads. Infil-bond[™] alloys are designed to melt and infiltrate into a powder matrix of hard abrasive materials binding them together and forming a wear resistant or abrasive component.

These specially manufactured products are often supplied in grain form. The maximum grain size of the grained product is approximately 5mm across. Cropped pieces of wire or cubes are also available as a product form.

A range of compositions are available designed to meet the different requirements of tools in terms of hardness and strength.

Compositions and Tolerances

Description / Composition	Ag%	Cu%	Zn%	Ni%	Mn%	Sn%	Si%
Infil-bond™ 40Ag	40	60	-	-	-	-	-
Infil-bond™ 30Ag	30	70	-	-	-	-	-
Infil-bond™ 20Ag	20	76	-	4	-	-	-
Infil-bond™ 86Cu	-	86	-	2	12	-	
Infil-bond™ 80Cu	-	80	-	-	-	20	-
Infil-bond™ 79Cu	-	79.2	-	10	5	5.5	0.3
Infil-bond™ 70Cu	-	70	-	10	20	-	
Infil-bond™ 60Cu	-	60	40	-	-	-	-
Infil-bond™ 53Cu	-	53	8	15	24	-	

Compositional tolerance: Main elements +/-1%

Impurity Levels

The impurity levels of these products are tightly controlled. For more information on the impurity levels for a specific product please contact Johnson Matthey.

Product Availability

Grain is produced to special order. Cropped pieces of wire or cubes are also available to special order.

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