

Silver processes for numerous technical applications







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Umicore offers numerous silver electrolytes for various technical applications and fields of use. These include, for example, electrical contacts in connector technology, high-frequency technology, medical technology, and coatings for electrical packaging technology.

The following table shows the property profiles of the silver electrolytes.



Fine silver processes

Fine silver has extremely high electrical and thermal conductivity. As electroplated coatings, fine silver processes are therefore widely used in electronics.

	ARGUNA® C-100	ARGUNA® ET	ARGUNA® 629	ARGUNA® 3230
Main application and characteristics	Electrical technology, extremely wear- resistant, high num- ber of mating cycles	Electrical technology, electronics	Electrical technology, electronics	Electrical technology, electronics
Process	Cyanidic	Cyanidic	Cyanidic	Cyanide-free
Hardness of the layer	approx. 100 HV	110 - 130 HV	арргох. 110 HV	90 - 100 HV
Purity	Dispersion Ag-Matrix	99.9 % Ag	99.8 % Ag	> 99 % Ag
Production type	Rack Barrel	Reel-to-reel Rack Barrel	Reel-to-reel Rack Barrel	Rack Barrel
Website: mds.umicore.com	/arguna-c100	/arguna-et	/arguna-629	/arguna-3230



Cyanide-free processes

Hard silver processes

In addition to good electrical conductivity, hard silver alloys are particularly hard. Therefore, they are mainly used for electrical contacts which have to withstand high wear.

	ARGUNA® 3430	ARGUNA® 630	ARGUNA® 635	ARGUNA®- Alloy 1
Main application and characteristics	Electrical technology, wear-resistant	Electrical technology, wear and vibration resistant	Electrical technology, wear-resistant	Electrical technology, temperature and wear-resistant
Process	Cyanide-free	Cyanidic	Cyanidic	Cyanide-free
Hardness of the layer	170 - 200 HV	160 - 180 HV	180 - 190 HV	280 HV
Purity	97 - 98 % Ag	97 - 98 % Ag	99 % Ag	90 - 95 % Ag
Production type	Rack Barrel	Reel-to-reel Rack Barrel	Rack Barrel	Reel-to-reel Gestell
Website: mds.umicore.com	/arguna-3430	/arguna-630	/arguna-635	/arguna-alloy

Cyanide-free processes



Passion for perfect surfaces

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