SPUTTERING TARGETS FOR THIN FILM DEPOSITION



STANDARD SPUTTER TARGET MATERIALS

Our sputtering targets are used for many Physical Vapor Deposition (PVD) applications in a variety of industries. A selection of our standard target materials is listed below with the respective standard purity, other materials are available upon request. Umicore has the knowledge and resources to work with you on special materials needed for your unique deposition requirements.

General ICs* Backend UBM*, RDL*, BSM*, Wafer bonding

Al (alloys) | Ag | Au | Cu | Ge | Ni (alloys) | Ti | WTi

LED*, Laser Diodes packaging

Au | Al | GaZO | Pt | Si | WTi

MEMS*, Sensor, Passives UBM*, RDL*, BSM*, Wafer bonding

AI | AISc | Hf | Nb | NiCr | NiFe | Si | Ta

Thin Film Batteries

LiCoO, | Li,PO,ding

Sputtering targets can be produced for of the most common sputter tool OEMs* such as Evatec, Applied Materials, SPTS, Ulvac and many more.

STANDARD TARGET MATERIALS WITH RESPECTIVE STANDARD PURITY

Metals		Alloys		Non-Metals		Precious Metals	
Al	5N5	AlCu0.5	5N5	Al_2O_3	4N	Ag	4N
Сг	3N5	AlCu4	5N5	GaZO (ZnO/Ga ₂ O ₃ 95/5)	3N	Au	4N
Cu	4N5	AlSc	3N5			AuZn3	4N
In	4N	AlSi0.5	5N5	Ge	5N	Pd	4N
Hf	3N7	AlSi1	5N5	ITO		Pt	4N
Мо	3N5	AlSi1Cu0.5	5N5	(In ₂ O ₃ /SnO ₂ 90/10)	4N	Ru	4N
Nb	3N	NiCr20	3N	LiCoO ₂	3N		
Ni	3N5	NiFe21.5	3N	Li ₃ PO ₄	3N		
Sc	2N5	NiFe55	3N	Si	5N		
Sn	4N5	NiV7	3N5	SiO ₂	4N		
Ta	4N	WTi10	4N5				
Ti	5N						



W

RDL = Redistribution Layer OEM = Original Equipment Manufacturer

5N

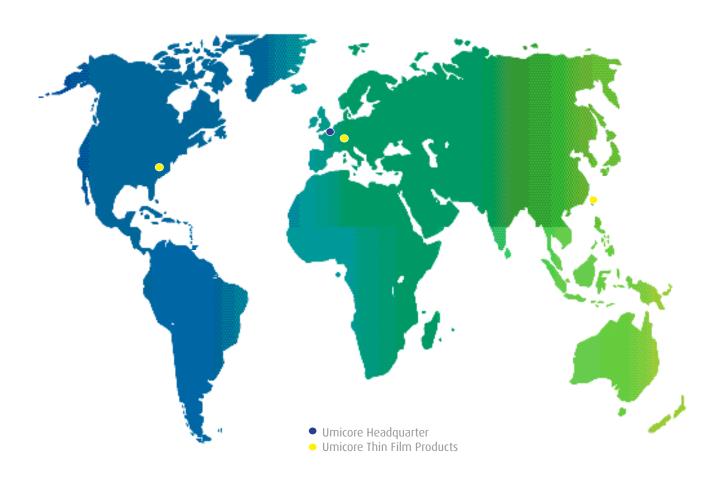
UBM = Under Bump Metallization





NETWORK FOR GLOBAL SUPPLY

Umicore Thin Film Products AG, a globally active business line within the Umicore Group, is one of the leading manufacturers of coating materials for physical vapor deposition (PVD) with more than 70 years of experience in the field. Our microelectronics portfolio covers a wide range of highly effective sputtering targets and evaporation materials.



Find more information here: www.tfp.umicore.com

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