



河北宏靶科技有限公司
Advanced Targets Materials Co., Ltd

Sputtering Targets and Arcing Cathodes for Hard Coating Applications

服务于硬质涂层的溅射靶材及电弧阴极



Leading PVD Targets Supplier for Hard Coating Applications

硬质涂层靶材制造商

C HOOSE ADVANCED TARGETS
FOR HARD COATING APPLICATIONS!

硬质靶材选宏靶!

Advanced Targets Materials Co., Ltd is one of the leading suppliers of sputtering targets, arcing cathodes and evaporation materials for the PVD thin film companies worldwide. Based on many years of technic accumulation in material science, Advanced Targets have been playing a more important role in hard coating thin film layer developing. Advanced Targets has been supplying a wide range of high-quality sputtering targets and arcing cathodes recognized by many well-known companies in PVD thin film field.

Driven by the mission of "Innovation, Sincerity, Quality", Advanced Targets achieved lots of R&D progress together with Chinese Academy of Sciences and some other international leading colleagues.

Choose Advanced Targets for Hard Coating Applications!

宏靶科技是专业的PVD镀膜靶材生产制造及研发企业。公司团队从事材料及PVD镀膜靶材制造行业十余年技术研发实力领先，生产制造经验丰富；宏靶科技秉承“创新、诚信、品质”的经营理念，以可靠的生产质量管理体系，专业的生产技术，为硬质涂层行业、大面积镀膜玻璃行业、太阳能光伏光热行业提供高品质的靶材及材料，受到众多国内外知名企业一致好评。

宏靶科技与客户共同开发的多种新材料使得客户在行业中持续保持领先能力！公司与中国科学院、北京科技大学等国际领先高等院校开展全面合作，加速提升公司科技创新能力，在生产制造与研发创新中不断取得良好业绩。

专业的团队，丰富的经验，领先的创新研发能力，宏靶科技为靶材客户研发、批量生产提供全方位服务。

宏靶科技，让您的镀膜更出众！



Cr, AlTi and AlCr sputtering targets and arcing cathodes are mainly used for deposition of hard coatings. The PVD process serves to increase the wear resistance of tools and components over a wide range of temperatures. Selected compositions are also used for decorative coatings.

Advanced Targets Materials Co., Ltd has been accumulating many years of experience in powder metallurgy, is supplying Cr/AlTi/AlCr targets with the advantages as below:

- High density
- Uniform and fine grained microstructure
- Homogeneous concerning distribution of chemical elements
- Low content of residual impurities

铬、铝钛和铝铬靶材主要应用于硬质涂层领域，通过物理气相沉积工艺，增加工模具表面的耐磨性能，特殊优化的成分同样也会应用到装饰涂层领域。

宏靶科技基于多年的粉末冶金技术沉淀，提供的铬靶及铝铬、铝钛靶材拥有以下优势：

- 高密度
- 组织结构均匀一致
- 均匀分布的元素粉末
- 低杂质元素含量

Typical targets we are supplying in the market:

宏靶科技提供的典型产品如下：

Dimension /mm	Ti TA1	TiAl 30/70	TiAl 33/67	TiAl 50/50	TiAl 50/50	Cr 99.8%	CrAl 30/70	TiSi 80/20	WC 99.9%
φ63*32	●	●	●	●	●	●	●	●	
φ100*32	●	●	●	●	●	●	●	●	
φ105*16	●	●	●	●	●	●	●	●	
φ160*12	●	●	●	●	●	●	●	●	
170*75*12						●	●	●	●
331*174*24	●	●	●	●		●	●	●	
400*88*10	●	●	●	●		●	●	●	
574*174*20	●	●	●	●		●	●	●	
741*191*18	●	●	●	●		●	●	●	
754*154*18	●	●	●	●		●	●	●	
1701*132*12	●	●	●	●		●	●		
Process	Melting	HIP	HIP	HIP	Melting	HIP	HIP	HIP	HIP

CrAlB/ CrAlSiW/ AlTiCrSiX etc are also well used for some special needs.

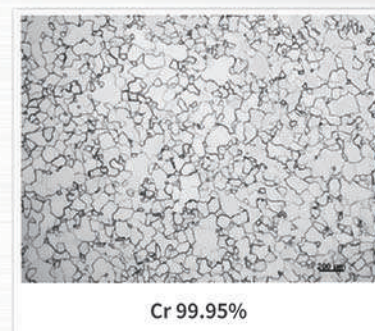
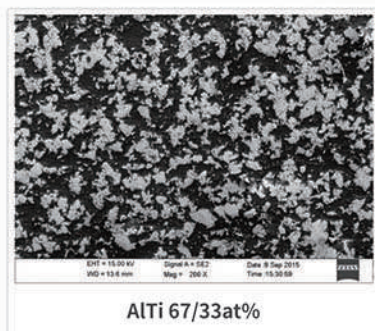
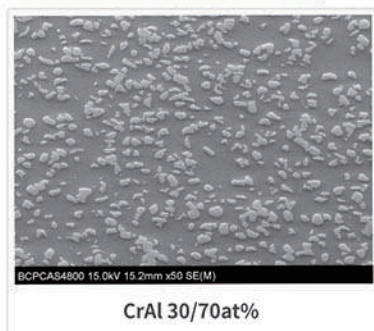
Advanced Targets have been supplying lots of high-end hard coating products, meanwhile co-developed many tailor-made new products which are supporting customers leading in hard coating market!

宏靶科技持续为硬质涂层领域客户提供高品质的靶材，同时与客户共同研发了诸多新品，助力客户涂层性能不断迭代升级！

硬质靶材选宏靶！

产品特性 Products Properties

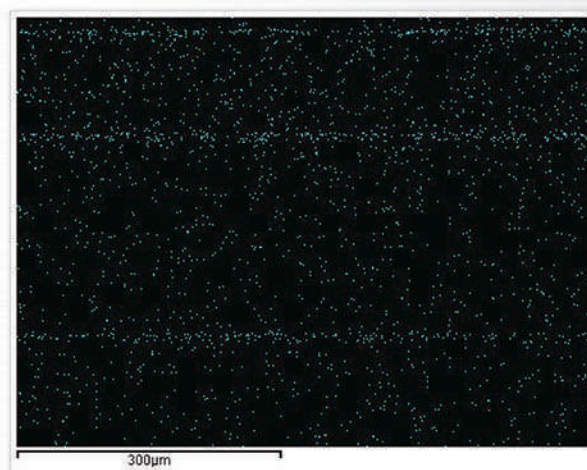
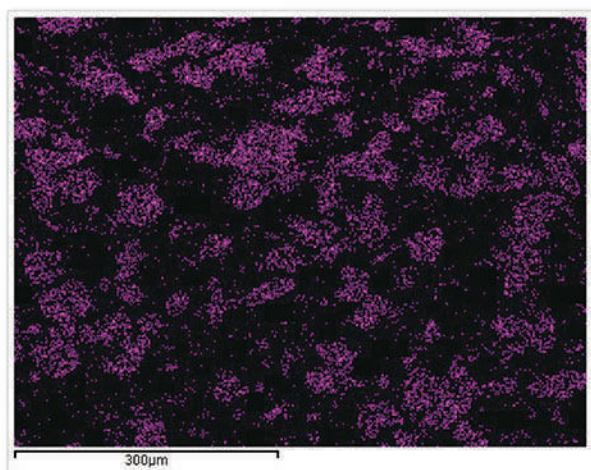
显微组织 Microstructure



Cr3N5纯度 Impurity control

Impurity	Fe	Al	Si	Ni	Mn	Cu	C	N	O	S
spec. (ppm)	<150	<100	<100	<50	<50	<50	<100	<100	<300	<50
Act. (ppm)	100	50	50	20	20	20	50	20	160	20

元素分布 Element distribution



As for customers in tooling and mould & die field, Advanced Targets' products have the advantages in homogeneous microstructure, high purity, element distribution good etc.

针对工具、模具客户要求，宏靶科技靶材产品具有晶粒组织均匀，纯度高，元素分布均匀等特点。



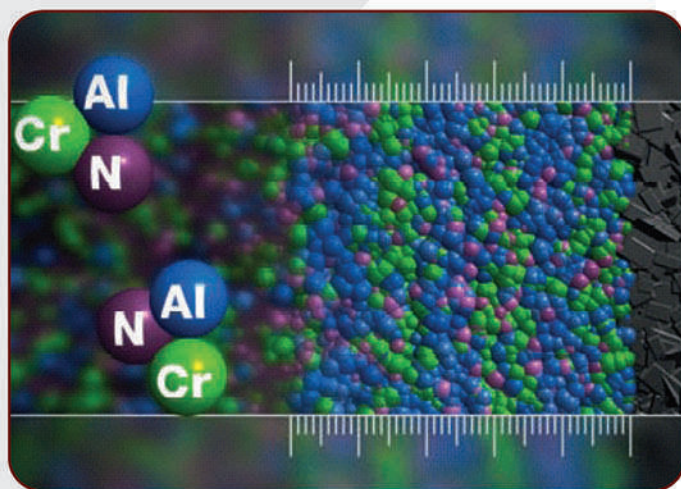
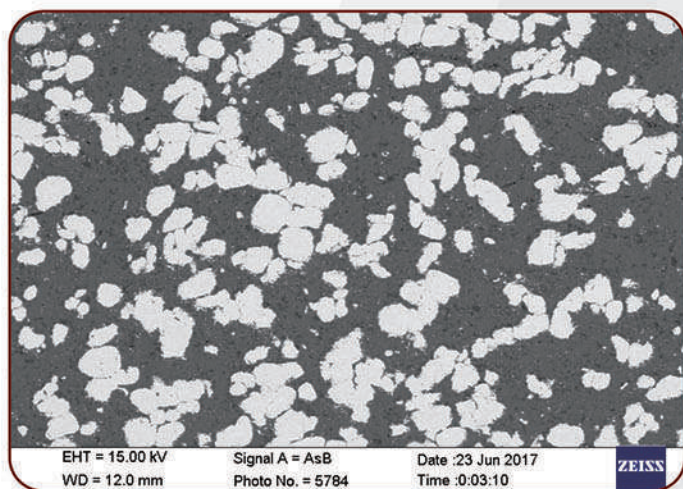
Advanced Targets have been supplying lots of typical targets for hard coating applications!

宏靶科技持续为硬质领域客户提供高端靶材产品及服务!

Choose Advanced Targets for Hard Coating Applications!

硬质靶材造宏靶!

Our optimum microstructure can be essential for you to achieve outstanding smooth layers.
宏靶科技产品最佳的内部组织，帮您获得优异的膜层至关重要。



Relying on its considerable experience in material technology and continuously stable quality, Advanced Targets has been servicing for lots of famous companies like BMW/Benz/Apple/Samsung/HYUNDAI!

宏靶科技产品以其先进的材料制造技术，连续稳定的产品质量，服务于全球顶尖客户，其产品已经广泛服务于宝马、奔驰、苹果、三星、现代汽车等世界知名企业!

河北宏靶科技有限公司

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