奥泰新材
AMA NEW MATERIAL

烟台奥泰新材料有限公司

www.AMAmetallurgy.com

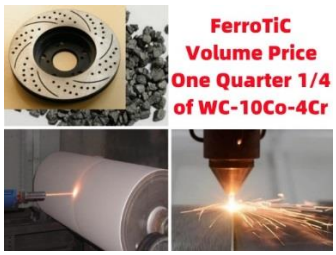
烟台
奥德

Advanced Metallurgy Tech

www.AMTmetalTech.com/StandardProducts

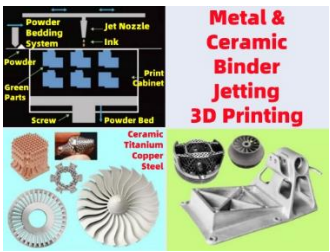
世界领先高温超耐腐蚀超耐磨解决方案

World Leading Solutions for 1000℃ Severe Corrosion & Super Wear Resist!



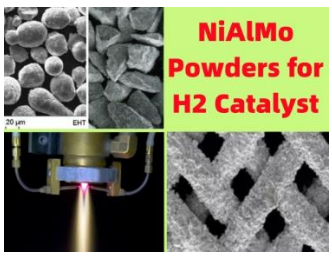
Brake Disc Coating Powder

Stellite Cladding Powder



Binder Jet 3D Print Parts

Titanium Sintered Forge



Hydrogen Catalyst Powder

Ti Ni Fibre or Powder Felt

Steel Powder of Gear Sinter

MoLa Filament Wire

我们的愿景是：

改变世界，成就员工！

OUR VISION OF AdvancedMetal IS CHANGE THE WORLD AND GREAT OUR EMPLOYEE!

我们的使命是：

成为高性能合金的国际先锋！

OUR MISSION OF AdvancedMetal IS TO BE THE GLOBAL LEADER IN THE HIGH PERFORMANCE ALLOYS!

我们的价值观是：

诚信第一，专利合金，世界优质！

OUR VALUE OF AdvancedMetal IS HONEST AND MULTI-WIN,PATENT ALLOYS AND WORLD TOP QUALITY!

Advanced Metallurgy Tech

奥泰新材价值观
AMTmetalTech Philosophy

奥泰新材作为世界领先的高温超耐腐蚀超耐磨解决方案供应商，我们的价值观是尊重客户、换位思考、义在利先。您可以在跟我们充分及时的沟通中体验我们的真诚、可信、主动、世界优质及专业。

AMTmetalTech as the World Leading supplier of Solutions for Severe Corrosion and Cavitation, Super Abrasion and High Temperature 1000℃ Resist, our Philosophy is Respect Customers As What We Want by Ourselves. You can feel our HONESTY, RESPECT, LIABILITY, INNOVATIVE, WORLD TOP QUALITY, PROFFESIONAL in our Sufficient and Timely solution communication.

奥泰新材优质独特的碳化钛合金粉体积价格是碳化钨的四分之一，用于刹车盘热喷涂及高速激光熔覆。

AMTmetalTech is producing Top Quality World Low Price FerroTiC Tungsten Carbide Alloy Powder for Brake Disc HVOF Thermal Spraying or High Speed Laser Cladding, which Volume Cost is quarter of Tungsten Carbide.

奥泰新材生产世界优质 3D 打印粉末及零件、钛粉锻件性能超越 HIP 热等静压、电解氢用催化剂粉、钛及镍纤维毡或粉毡、汽车齿轮粉冶用钢粉。出口欧美日本均已超 25 年。

AMTmetalTech is producing as well Top Quality World Low Price Stellite Powder for Engine Valve Cladding, Binder Jetting 3D Printing Powders & Printed Parts, Titanium Powder Sintered Forge better than HIP, Electrolysis Hydrogen Cathode Plasma Spraying Catalyst NiAlMo Powder, Titanium or Nickel Fibre and Powder Felt, Steel Powders for Gear Sinter, Molybdenum Lanthana Filament Wire etc. We are in the USA, Europe and Japan market all for more than 25 years.

世界优质 World Top Quality

我们非常自豪奥泰新材代表中国最高品质。公司获得了英国质量协会 BSI 的 ISO9001-2015 质量管理体系认证。我们的质量目标是“零缺陷”及“客户受益”。我们的质量文化是“第一次就做正确！”

We are very proud of that AMTmetalTech means the Top Quality from China. As registered company approved by the world famous BSI (British Standard Institution), our quality objective is ZERO DEFECT and CUSTOMER BENEFITED. Our quality culture is “Do Everything Correctly the First Time!”

ISO9001-2015 BSI Cert No.FM059203

专业 Professional

奥泰新材是中国焊接协会增材制造专委会常务理事单位，中国热喷涂协会高级会员单位。我们的冶金及工艺专家，包括教授、高工、技师等随时准备为我们的客户提供非常专业的解决方案。

We are very proud of that AMTmetalTech is the leading Specialist in Metallurgy in China. Our Metallurgy and Processing experts, including Professors, Senior Engineers and many experienced Technicians, can offer our customers very Professional solutions. AMTmetalTech is the senior member of China Thermal Spraying Association.

创新 Innovative

奥泰新材的持续核心竞争力源于我们经济实用的高性能合金的研发和创新。我们有来自欧洲的世界级专家教授指导。我们与北京科技大学的冶金实验室建立了长期的合作关系。我们每年有多项专利申报及获批。

AMTmetalTech continuous competitive is our innovative and economic valuable R&D results, the high performance alloys developing under consulting domestic and Europe famous professors in the metallurgy field. We have established long-term cooperation with the famous metallurgy laboratory in Beijing University of Science and Technology, which can strongly carry on some our R&D jobs with various equipment and measures. We have gotten a number of patents, and still keep in obtaining patents every year.

及时 Timely

任何询盘 48 小时内一定会有回复。紧急的邮件 24 小时内回复。特别紧急的 4 小时内回复。

Our commitment is: Any enquiry from you will be replied within 48 hours. Any urgent E-mail will get our answer within 24 hours. Extraordinary urgent will get our response even within 4 hours.

设备展示
Equipment Display

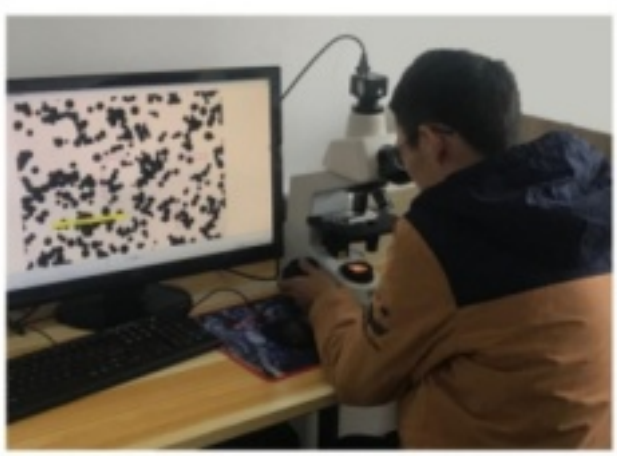
气雾化制粉设备
Gas Atomizing Powder Production

粉末气流分级机
Powder Classify Machine

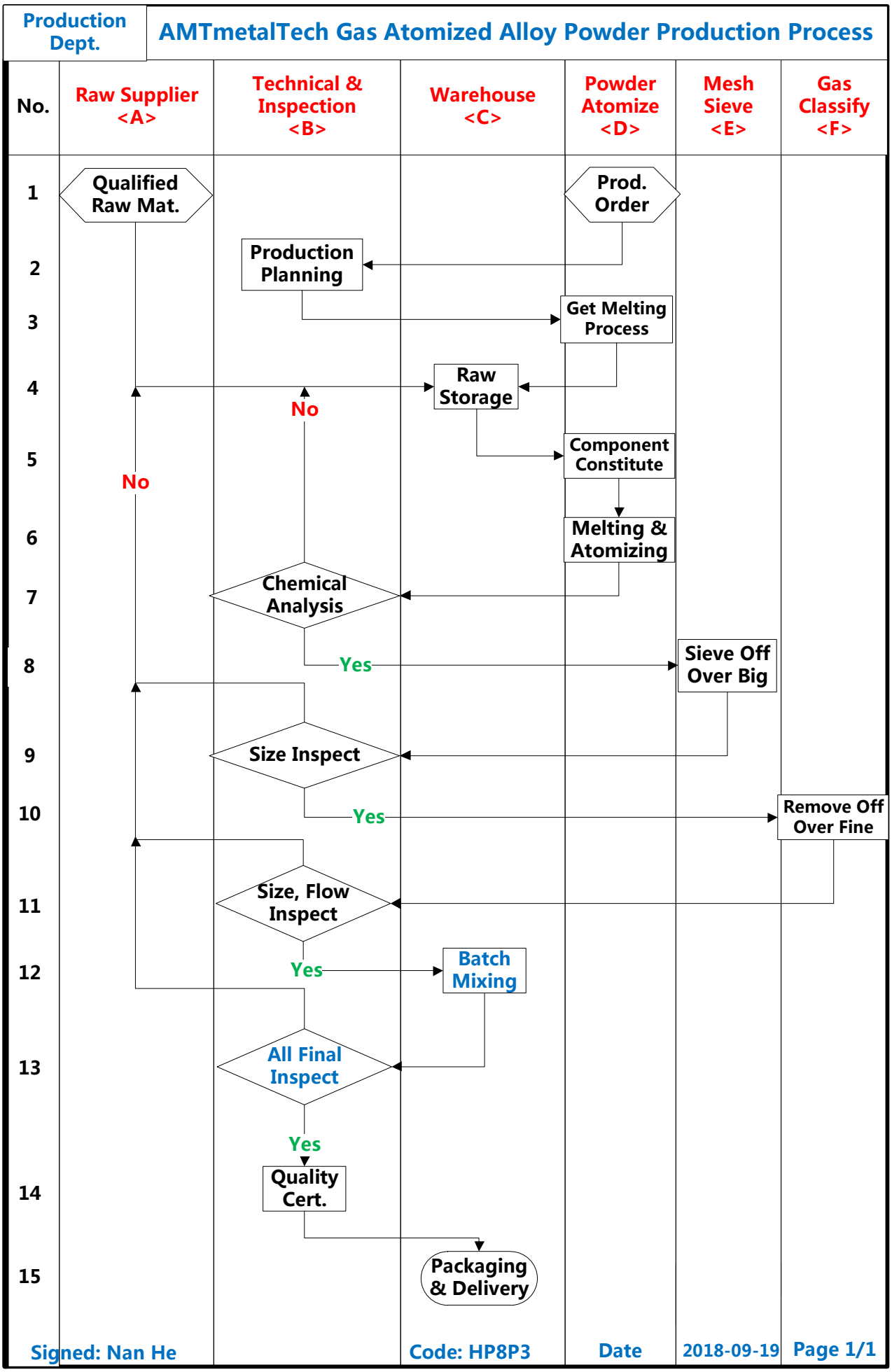
粉末零件自动压机
Automatic Powder Parts Presser

粉末零件真空烧结炉
Powder Sintering Furnace

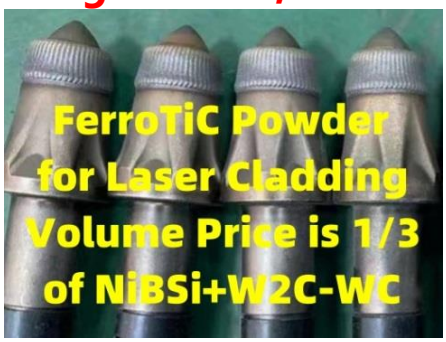
粉末激光粒度检测仪
Laser Granulometry Apparatus



粉末显微镜
Powder Microscope


Production Dept.
AMTmetalTech Gas Atomized Alloy Powder Production Process
No.
Raw Supplier <A>
Technical & Inspection <B>
Warehouse <C>
Powder Atomize <D>
Mesh Sieve <E>
Gas Classify <F>
1
Qualified Raw Mat.
Prod. Order
2
Production Planning
3
Get Melting Process
4
Raw Storage
No
5
Component Constitute
No
6
Melting & Atomizing
7
Chemical Analysis
8
Yes
Sieve Off Over Big
9
Size Inspect
10
Yes
Remove Off Over Fine
11
Size, Flow Inspect
12
Yes
Batch Mixing
13
All Final Inspect
Yes
14
Quality Cert.
15
Packaging & Delivery
Signed: Nan He
Code: HP8P3
Date
2018-09-19
Page 1/1

金属陶瓷碳化钛铁基合金粉用于耐磨耐腐蚀耐气蚀代替碳化钨溶射、激光熔覆
FerroTiC Titanium Carbide Hardmetal Powders for Brake Disc HVOF Coating or Laser Cladding of Wear, Corrosion, Cavitation Resist



1. 金属陶瓷碳化钛合金粉用于耐磨耐腐蚀耐气蚀代替碳化钨溶射、激光熔覆品规
Top Quality World Lowest Price FerroTiC Titanium Carbide Hardmetal Powders for Brake Disc HVOF Spraying or Laser Cladding Specifications

型号 Type	TiC	Cr+Ni	C+Mo+Nb	N+Mn+Co	Fe	密度 Density	硬度 Hardness	耐腐蚀 Corrosion Resist	耐高温 Temperature Resist	粒度 Powder Size	应用 Application	特点 Character
T60	59-61	12-14	1.0-3.0	7.0-9.0	Balance 13-21	≈5.7 g/Cm3	HRA 88-89	优于 Better than 316L	up to 800℃	15-53um, 53-150um	HVOF, Cored Wire 热喷涂, 粉芯丝	体积价格是 WC-10Co-4Cr 的四分之一 Volume Price is 1/4 of WC-10Co-4Cr
T33E	32-34	25-29	2.0-4.0	4.0-6.0	Balance 27-37	≈6.8 g/Cm3	HRC 40-50	优于 Better than 316L	up to 700℃	20-53um, 53-150um	Laser, PTA Cladding 激光熔覆	体积价格是司太立堆焊粉的二分之一 Volume Price is 1/2 of Stellite
T33W	32-34	15-17	1.0-3.0	4.0-6.0	Balance 40-48	≈6.8 g/Cm3	HRC 51-55	优于 Better than 17-4PH	up to 550℃	20-53um, 53-150um	Laser, PTA Cladding 激光熔覆	体积价格是镍基碳化钨堆焊粉的三分之一 Volume Price is 1/3 of NiBSi+W2C-WC
T25C	24-26	15-25	1.0-3.0	4.0-6.0	Balance 40-56	≈7.1 g/Cm3	HRC 36-46	优于 Better than 316L	up to 550℃	20-53um, 53-150um	Laser, PTA Cladding 激光熔覆	超耐气蚀高耐磨 Super Cavitation & very good Wear Resist

2. 金属陶瓷碳化钛合金粉用于耐磨耐腐蚀耐气蚀代替碳化钨溶射、激光熔覆生产
Top Quality World Lowest Price FerroTiC Titanium Carbide Hardmetal Powders for Brake Disc HVOF Spraying or Laser Cladding Production

奥泰新材纯碳化钛生产工艺：1. TiO2+3C 混匀后真空炉中加热至 2000℃ = TiC + 2CO，2. TiC 破碎，3. TiC 筛分及气流分级。

Pure TiC Titanium Carbide Production Processes: 1. TiO2 + 3C mixed & be put in Vacuum Furnace at about 2000℃ = TiC + 2CO, 2. TiC Crushed, 3. TiC Sieved & Gas Classified.

烟台奥泰预先在碳化钛粉表面包覆了一层不锈钢，彻底解决了纯碳化钛粉熔覆过程中易氧化、不易跟不锈钢润湿结合的技术难题。镍基 60%铸造碳化钨中碳化钨体积比约 43%，T33W 不锈钢基碳化钛中碳化钛体积比约 44%。T33W 不锈钢基碳化钛熔覆层耐磨性略逊色于镍基 60%铸造碳化钨。T33W 不锈钢基碳化钛粉体积价格是镍基 60%铸造碳化钨粉价格的三分之一 1/3。

AMTmetalTech unique FerroTiC Powder is the pure TiC clad with Stainless Steel to avoid the headache of pure TiC oxidizing and not easy to be wet bonded with steel during weld overlaying or thermal spraying.

碳化钨在 WC-10Co-4Cr 溶射粉中的体积比为约 77%。碳化钛在 T60=60%TiC+40%不锈钢热喷涂粉中的体积比为约 70%。T60 耐磨性很好仅略逊于 WC-10Co-4Cr。T60 体积价格是 WC-10Co-4Cr 的四分之一 1/4。T60 可用于 HVOF、HVAF 及等离子热喷涂代替 WC-10Co-4Cr。

The Tungsten Carbide volume rate in WC-10Co-4Cr is about 77%. The Titanium Carbide volume rate in T60=60%TiC+40%Stainless Steel is about 70%. The wear resistance of T60 is very good and close to WC-10Co-4Cr. The volume price of T60 is very competitive only 1/4 one quarter of the WC-10Co-4Cr for HVOF, HVAF or Plasma Spraying Brake Discs, Valves, Pistons, Drill Rods etc.

The Tungsten Carbide volume rate in 60%W2C-WC+40%NiBSi is about 43%. The Titanium Carbide volume rate in T33W=33%TiC+67%Stainless Steel is about 44%. The wear resistance of T33W is very good and close to 60%W2C-WC+40%NiBSi. The volume price of T33W is very competitive only 1/3 one of third of the 60%W2C-WC+40%NiBSi for Laser or PTA Plasma cladding Brake Discs, Conical Mining Drill Bits etc.

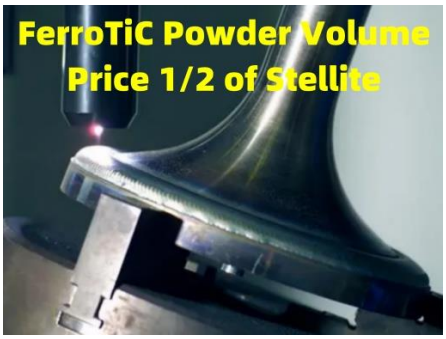
T33E=33%TiC+67%耐高温腐蚀不锈钢用于激光熔覆或等离子堆焊发动机气门等。

T33E=33%TiC+67%Elevated Temperature Erosion Resist Austenite Stainless Steel is very good for Gas Valve Laser or PTA Plasma Cladding in Car Industry.

T25C=25%TiC+75%不锈钢超耐气蚀用于激光熔覆或等离子堆焊水轮机叶片等不预热无裂纹。碳化钛在 T25C 中的体积比为约 35%。

T25C=25%TiC+75%Stainless Steel is very good Cavitation, Corrosion resist and very good abrasion resist no cracking tendency without preheating for Laser or PTA Plasma Cladding Hydro Turbine Runners, Propeller Blades, Impeller Runners, Pumps etc. The Titanium Carbide volume rate in T25C is about 35%.

纯碳化钛真空还原炉
Vacuum Reduction for Pure TiC



气门堆焊粉体积价格是司太立一半
T33E Gas Valve Cladding

T25C 粉用于超耐气蚀熔覆
T25C Powder for Cavitation Resist

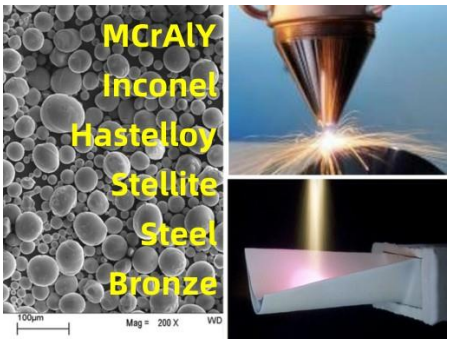
3. 金属陶瓷碳化钛合金粉用于耐磨耐腐蚀耐气蚀代替碳化钨溶射、激光熔覆优点

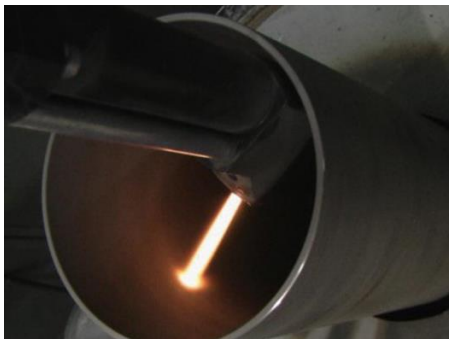
Top Quality World Lowest Price FerroTiC Titanium Carbide Hardmetal Powders for Brake Disc HVOF Spraying or Laser Cladding Advantages

FerroTiC 优点 Advantages	碳化钛合金 FerroTiC T60=60%TiC+SS	纯碳化钛 Pure TiC
密度 Density	较高约 about 6.1	较低 4.93
晶粒度 TiC Grain Size	1-2um	20-53um, 53-150um
涂层均匀度 Coating Homogeneity	均匀度较高因为细 TiC 溶解分散 Homogenious for T60 is dissolved to be fine TiC	均匀度较低因为粗 TiC 易上浮 Less Homogenious for Thick TiC easy to float
涂层脆性 Coating Brittleness	涂层脆性小因为细 TiC 已经在不锈钢中均布 Less Brittle for fine 60%TiC already bonded with SS	涂层中粗 TiC 较脆 More Brittle for pure thick TiC
涂层结合度 Bonding after cladding	细 TiC 已经跟不锈钢粉真空烧结后在熔覆中不易氧化因此涂层结合更佳 Better bonding for fine TiC already bonded with SS during vacuum sintering before cladding	粗纯碳化钛熔覆中易氧化因此涂层不易结合 Pure thick TiC is easy to be oxidized and less easy to be bonded with SS during cladding
涂层裂纹倾向 Coating Cracking Tendency	较低 Less Cracking Tendency	较高 More Cracking Tendency
碳化钛允许含量 TiC content rate allowed in coating to prevent cracking	较高 Higher	较低 Less

奥泰新材优质超耐腐蚀耐高温镍基及铁基气雾化涂层粉末

AMTmetalTech Quality Super Corrosion and Temperature Resist Inconel, Stellite or Steel Gas Atomized Powders for Surfacing





1. 奥泰新材优质超耐腐蚀耐高温镍基及铁基气雾化涂层粉末特点及应用

AMTmetalTech Super Corrosion and Temperature Resist Inconel, Stellite or Steel Gas Atomized Surfacing Powders Character and Applications

奥泰新材的优质超耐腐蚀耐高温镍基及铁基气雾化粉末球形度高、流动性好，常用粒度有 15-45um、20-53um、45-125um 等，含氧量低，超耐腐蚀耐高温。广泛用于油气、化工、纸浆、食品、制药、海洋、电力等行业超耐腐蚀耐高温的管孔、容器、轴套等工件的超音速和等离子热喷涂、激光熔覆和 PTA 等离子堆焊等。

AMTmetalTech Quality Super Corrosion & Temperature Resist Inconel, Stellite or Steel Gas Atomized Powders for surfacing have good sphericity, flow ability and low oxygen, which common sizes are 15-45um, 20-53um, 45-125um and used for HVOF / HVAF / Plasma thermal spraying or Laser / PTA Plasma cladding of Severe Corrosion and High Temperature resist various parts in Oil & Gas, Chemical, Pulp, Food, Medicine, Ocean, Power industries etc.

2. 奥泰新材优质超耐腐蚀耐高温镍基及铁基气雾化涂层粉末包装

AMTmetalTech Quality Super Corrosion and Temperature Resist Inconel, Stellite or Steel Gas Atomized Surfacing Coating Powders Packaging

标准包装为每 5 公斤一个塑料瓶。其他包装可以定制。

The standard packaging is by plastic bottle per 5 kg. We can do according to the customer requirements for packaging.

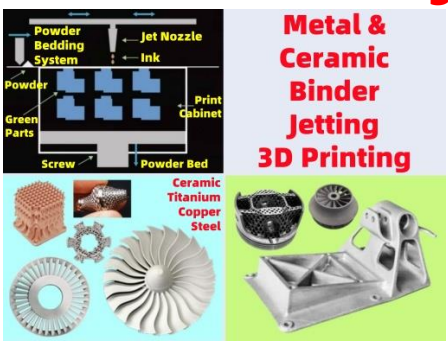
3. 奥泰新材的优质超耐腐蚀耐高温镍基及铁基气雾化粉末主要品规如下表

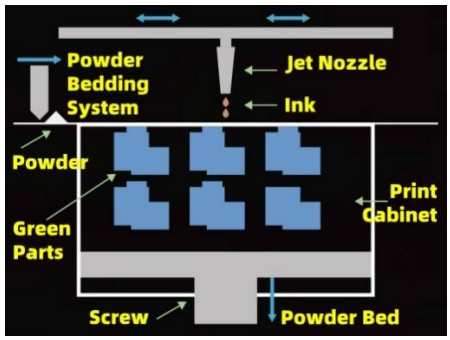
AMTmetalTech Super Corrosion & Temperature Resist Inconel, Stellite or Steel Gas Atomized Powders Main Specifications as in the following table

Type 型号	Powder Type 成分	Hardness 硬度	Reference 参考产品			Process 适用工艺	Properties/Applications 性能/应用
			Metco	Praxair	Hoganas		
AM-NiCoCrAlYTaHfSiRe	Ni-17Co-21Cr-10Al-0.4Y-3.5Ta-0.3Hf-0.7Si-1.2Re	HRC20				HVOF, APS, VPS, LPPS	●Temperature Oxidation Stable for Bond Coat of TBC 抗高温氧化，适于发动机热障涂层的过渡层
AM-NiCrAlY	Ni-22Cr-10Al-1Y	HRC20	Amdry 9624	Ni-164, 211	AMPERIT 413.0	HVOF, APS, VPS, LPPS	●Stable Temperature Oxidation for Turbine Blades Bond Coat 抗发动机叶片过渡层的高温氧化
AM-NiCoCrAlY	Ni-23Co-17Cr-12.5Al-0.5Y	HRC20	Amdry 365-4	Ni-130, 171	AMPERIT 410.0	HVOF, APS, VPS, LPPS	●Temperature Oxidation Stable for TBC Bond Coat 抗高温氧化，用于发动机热障涂层的过渡层
AMinconel625	Ni-22Cr-9Mo-4Nb-4FeCo	HRC20	Amdry 625	Ni-328	In625	HVOF, Laser, AP, PTA	●Excellent Corrosion and Very Good Temperature resist 耐腐蚀耐高温优异
AMinconel718	Fe-52Ni-20Cr-5Nb-3MoCoTi	HRC20	Amdry 718	Ni-202	In718	HVOF, Laser, AP, PTA	● Very Good Corrosion and Good Temperature resist 耐腐蚀耐高温优秀
AM-Ni8020	Ni-20Cr	HRC20+	Metco 43VF-NS	Ni-105	AMPERIT 251.0	HVOF, HVAF, AP, PTA	● Very Good Heat, Corrosion Resist and Bond Coat 耐热耐腐蚀优秀，可做过渡层
AMhastelloyC276	Ni-15Cr-16Mo-4Fe-4WCo	HRC20	Dia. 4276	Ni-544	C276	HVOF, Laser, AP, PTA	●Excellent Corrosion and High Temperature resist 耐腐蚀耐高温杰出
AMhastelloyC22	Ni-22Cr-13Mo-4Fe-3WCo	HRC20				HVOF, Laser, AP, PTA	● Excellent Corrosion and Temperature Oxidation resist 耐腐蚀抗高温氧化优异
AM-Monel400	Ni-30Cu	HRC20				HVOF, Laser, AP, PTA	●Excellent for Hydrofluoric Acid and Biological Corrosion 抗氢氟酸及生物腐蚀杰出
AM-Ni1910	Ni-19Cr-10Si	HRC50+		Ni-430	AMPERIT 442.9	Braze	● Strong, Tough, Heat Resist. Good for Nuclear.强韧耐热，可用于核工业
AMstellite6	Co-29Cr-5W-3Ni-1Mo-1.2C	HRC43	Dia. 4060NS	Co-106	2537-00	HVOF, Laser, AP, PTA	● Temperature & Pressure Engine Valve, Turbine Blade 适用于发动机阀门，涡轮叶片
AMstellite12	Co-30Cr-8W-3Ni-1Mo-1.4C	HRC47			2541-00	HVOF, Laser, AP, PTA	● Temperature & Pressure Valve, Screw Rod 高温高压阀门，螺杆
AMtribaloy400	Co-29Mo-9Cr-2.6Si-1.5Ni	HRC53	Metco 66F-NS	Co-109	HB400	HVOF, Laser, AP, PTA	● Temperature & Corrosion Valve, Extrusion 适用于高温耐腐蚀阀门、挤压件
AMCu-10Al	Cu-10Al	HB200	Metco 445, 51NS	Cu-104		HVOF, Laser, AP, PTA	● Cavitation, Dry Running, Fretting Resist Pump & Guiders 适用于耐气蚀、干滑蚀泵及导轨
AM316L	Fe-17Cr-12Ni-2.5Mo	HRC20	Diamalloy1003	Fe-101	316L	HVOF, Laser, AP, PTA	●Steel Corrosion, Heat, Impact Resist and Bond Coat 耐腐蚀耐热耐冲击优良，可过渡层
AM431	Fe-17Cr-2Ni-.18C	HRC50+	Metco 42C		431HC	HVOF, Laser, AP, PTA	●Martensit stainless steel and wear resist, For Rollers and Flanges 耐磨马氏体不锈钢，适用于轧辊、法兰

金属及陶瓷粘接剂喷射 3D 打印优质零件

Metal & Ceramic Binder Jetting Additive Manufacturing AM or 3D Printing Parts for Automobile or Electronics





1. 奥泰新材金属及陶瓷粘接剂喷射 3D 打印优质零件优势

AMTmetalTech Top Quality World Low Price Metal & Ceramic Binder Jetting Additive Manufacturing AM or 3D Printing Parts Advantages

奥泰新材金属粘接剂喷射 3D 打印优质零件比粉压烧结或铸件的孔隙率要低、密度和抗拉强度要高，并且有以下优势：1. 无需支撑，2. 原料成本低，3. 打印速度比 SLS 铪 10-100 倍，4. 可堆叠打印，5. 自动化，6. 原料品种多。

AMTmetalTech produces Top Quality World Low Price Metal Binder Jetting Additive Manufacturing AM or 3D Printing Parts annually in Millions Pieces at **Less Porosity, Higher Density & Tensile Strength than Powder Press Sinter or Casting** as well as the following Advantages: **1. No Need Printing Support, 2. Powder Half Cost as SLS, 3. 10-100 Times Printing Speed as SLS, 4. Parts Stackable full the Printing Cabinet, 5. Fully Automatically, 6. Many Alloys Printable.**

17-4PH Part 零件	Powder Press Sinter 粉压烧结	Casting 铸件	Metal Binder Jet 3D Print 金属粘接剂喷射 3D 打印	Forging CNC 锻件机加工
Density Rate 密度	85-95%	92-96%	96-99%	100%
Tensile Strength 抗拉强度	600-800 MPa	850-1,000 MPa	950-1,150 MPa	1,100-1,300 MPa

2. 奥泰新材金属及陶瓷粘接剂喷射 3D 打印优质零件材料

AMTmetalTech Top Quality World Low Price Metal & Ceramic Binder Jetting Additive Manufacturing AM or 3D Printing Parts Materials

奥泰新材粘接剂喷射 3D 打印可生产钢、软磁体、镍合金、钴合金、钛、铝、铜、钨铜、氧化铝、氧化锆、氮化硅、碳化钨等优质精密零件。

AMTmetalTech produces Top Quality World Low Price Metal Binder Jetting 3D Printing including Steel, Soft Magnet, Nickel Alloy, Cobalt Alloy, Titanium,

Aluminum, Copper, Tungsten Copper etc. as well as Ceramic Binder Jetting 3D Printing including Alumina, Yttria Stabilized Zirconia, Silicon Nitride, Tungsten Carbide Hardmetal etc.

Metal Binder Jet Print Part 金属粘接剂喷射打印零件	Low Alloy Steel 低合金钢	Stainless Steel 不锈钢	Mold Steel 模具钢	Low Expansion Alloy 低膨胀合金	Soft Magnet 软磁	Nickel Alloy 镍合金	Cobalt Alloy 钴合金	Titanium 钛	Aluminum 铝	Copper 铜	Tungsten Copper 钨铜	Ceramic 陶瓷
Typical Alloy 典型合金	4140, 4340	17-4PH, 420, 304L, 316L, 440C, 2507	M2, D2, H13, MS1	Kovar F15, Invar36	FeNi, FeSiCr, FeSiAl	In625, In718, C276	CoCrMo, Stellite, Tribalioy	CP Ti2, Ti-6Al-4V	6061, 7075, AlSi10Mg	Cu, Cu-30Ni, CuCrZr, Cu-10Al	W-10Cu, W-20Co, W-25Cu	Alumina, YSZ Zirconia 氧化铝，氧化锆

3. 奥泰新材金属及陶瓷粘接剂喷射 3D 打印优质零件生产及应用

AMTmetalTech Top Quality Metal & Ceramic Binder Jetting Additive Manufacturing AM or 3D Printing Parts Production Applications

粘接剂喷射 3D 打印机

Metal Binder Jet 3D Printer

连续烧结炉

Continuous Sinter Furnace

真空烧结炉

Vacuum Sinter Furnace

热等静压机

Hot Isostatic Presser HIP

粘接剂喷射打印汽车零件

Automobile Binder Jet Print

粘接剂喷射打印电子零件

Electronics Binder Jet Print

奥泰新材生产的金属及陶瓷粘接剂喷射 3D 打印优质零件广泛用于汽车及电子工业。

AMTmetalTech Top Quality World Low Price Metal or Ceramic Binder Jetting Additive Manufacturing AM or 3D Printing Parts are widely used for Automobile or Electronics Industries etc.

奥泰新材钛合金粉末锻件性能超铸锻件及热等静压件

Titanium Alloy Ti64 Powder Sintered Billets & Forgings Properties Superior than Cast Forgings or HIP Hot Isostatic Pressed Parts

1. 奥泰新材钛合金粉末锻件性能超铸锻件及热等静压件

Titanium Alloy Ti64 Powder Sintered Billets & Forgings Properties Superior than Cast Forgings or HIP Hot Isostatic Pressed Parts

Ti64 Mechanical Properties	Tensile Strength, MPa	Yield Strength, MPa	Elongation, %	Area Reduction, %
Aerospace Parts	≥895	≥825	≥10	≥25
Cast Forgings	≥980	≥870	≥10	≥25
AMTmetalTech Powdered Forgings	≥1020	≥920	≥12	≥30

奥泰新材制造始于生产世界优质超低氧 HDH 氢化脱氢 TC4 钛合金粉，然后用冷等静压及真空烧结制造钛合金坯料，最后利用等温热模锻做成钛合金粉末锻件。奥泰新材的钛合金粉末锻件力学性能明显高于铸锻件，甚至高于热等静压零件。奥泰新材的钛合金粉末锻件成本明显低于热等静压零件。

AMTmetalTech starts manufacturing firstly from Top Quality World Lowest Price very low Oxygen HDH Hydride-dehydrite Titanium Alloy Ti64 Powders, then makes high performance Titanium Alloy Ti64 Billets by Cold Isostatic Pressing and Vacuum Sintering, finally produces Powdered Forgings by Multi-directions Isotemperature Mold Forging, which mechanical properties are much better than the Cast Forgings and even better than Hot Isostatic Pressed Parts, while the cost is much lower than by Hot Isostatic Pressing.

2. 奥泰新材钛合金粉末锻件性能超铸锻件及热等静压件应用

Titanium Alloy Ti64 Powder Sintered Billets & Forgings Properties Superior than Cast Forgings or HIP Hot Isostatic Pressed Parts

Ti64 Connecting Rod

Ti64 Balance Shaft

Titanium Alloy Cutter Billet

Titanium Alloy Valve Ball

Titanium Alloy Impeller

Titanium Alloy Flange

Titanium Alloy Valve

Titanium Alloy Ring

Titanium Alloy Tube Disc

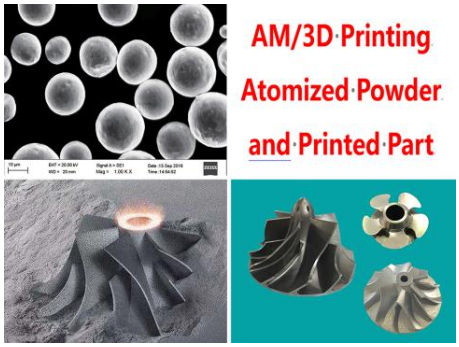
Titanium Alloy Hook

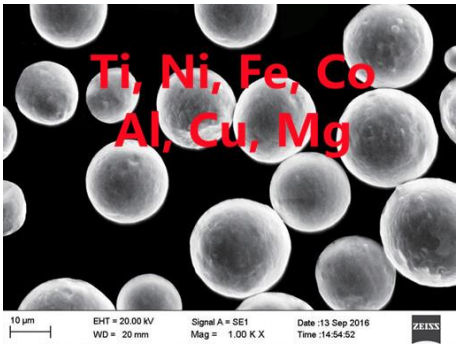
Titanium Alloy Hinge

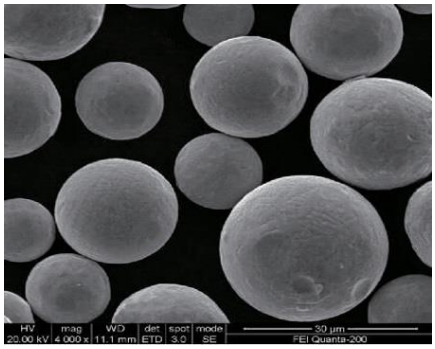
Ti64 Ship Shift Fork

增材制造用真空气雾化合金粉末及 3D 打印零件

Metal Additive Manufacturing AM or 3D Printing Vacuum Gas Atomized Alloy Powders and Printed Parts







1. 奥泰新材增材制造用真空气雾化合金粉末描述

AMTmetalTech Top Quality Metal Additive Manufacturing AM or 3D Printing Vacuum Gas Atomized Alloy Powders main type and chemical

奥泰新材真空气雾化方法生产的合金粉末年产量达 300 吨，质量、价格很有竞争力。

AMTmetalTech produces Metal Additive Manufacturing AM or 3D Printing Vacuum Gas Atomized Alloy Powders in hundreds tons annually at very competitive quality and pricing.

2. 奥泰新材增材制造用真空气雾化合金粉末粒度及氧含量

AMTmetalTech Quality Metal Additive Manufacturing or 3D Printing Vacuum Gas Atomized Alloy Powders Particle Size Distribution and Oxygen content

标准粒度为：4-22um，15-45um，15-53um，45-105um 等。氧含量低。球形度 90%以上。其他化学成分及粒度可以根据客户要求生产。

Typical Size: 4-22um, 15-45um, 15-53um, 45-105um etc. Oxygen Content: Normally ≤500PPM for Ni, Fe, Co, Cu alloys; ≤1500PPM for Ti, Al, Mg alloys.

Powder Sphericity: ≥0.9

Other type and chemical, Particle Size Distribution is available as inquired.

3. 奥泰新材增材制造用真空气雾化合金粉末包装

AMTmetalTech Top Quality Metal Additive Manufacturing AM or 3D Printing Vacuum Gas Atomized Alloy Powders Packaging

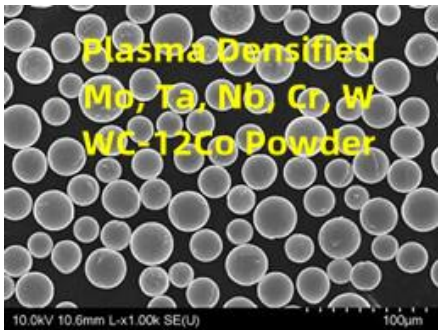
奥泰新材增材制造用真空气雾化合金粉末标准包装为 5kg 真空袋或者塑料瓶。我们也可以按照客户要求包装。

The standard packaging is 5kg per Vacuum Bag or Plastic Bottle. We can do according to the customer requirements for packaging.

Type	Chemical Composition, wt%														
	C	Cr	Ni	Mo	Si	Mn	S	P	Nb	Cu	V	Ti	Fe	Co	Al
Inconel 625	≤0.1	20.0-23.0	Balance	8.0-10.0	≤0.5	≤0.5	≤0.015	≤0.015	3.15-4.15			≤0.4	≤5.0	≤1.0	≤0.4
Inconel 718	≤0.08	17.0-21.0	50.0-55.0	2.8-3.3	≤0.35	≤0.35	≤0.01	≤0.01	4.75-5.50	≤0.30	B≤0.006	0.65-1.15	Balance	≤1.0	0.2-0.8
Hastelloy X	0.05-0.15	20.5-23.0	Balance	8.0-10.0	≤1.00	≤1.00	≤0.015	≤0.025	W0.20-1.00	≤0.50	B≤0.01	≤0.15	17.0-20.0	0.50-2.50	≤0.50
316L Stainless Steel	≤0.03	16.0-18.0	10.0-14.0	2.0-3.0	≤1.00	≤2.00	≤0.03	≤0.045					Balance		
17-4PH Steel	≤0.07	15.5-17.5	3.0-5.0		≤1.00	≤1.00	≤0.03	≤0.04	0.15-0.45	3.0-5.0			Balance		
MS1 Tool Steel	≤0.03	≤0.5	17.0-19.0	4.5-5.2	≤0.1	≤0.1	≤0.01	≤0.01		≤0.50		0.6-0.8	Balance	8.5-9.5	0.05-0.15
Duplex Stainless Steel	≤0.03	26.0-28.0	5.0-8.0	4.0-5.0	≤0.5	≤1.5	≤0.02	≤0.01					Balance		N0.35-0.45
CoCrMo	<0.35	27.0-30.0	<0.5	5.0-7.0	<1.0	<1.0		W<0.25	B<0.01	N<0.25	<0.2	<0.1	<0.75	Balance	<0.1
Ti-6Al-4V, Ti64											3.50-4.50	Balance	≤0.3		5.5-6.75
CuCrZr		0.5-1.5							Zr .05-.25	Balance					

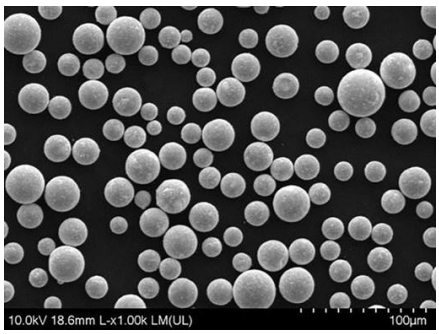
4. 增材制造或 3D 打印用等离子球化高熔点合金粉末

Plasma Densified High Melting Alloy Powders for Metal Additive Manufacturing or 3D Printing



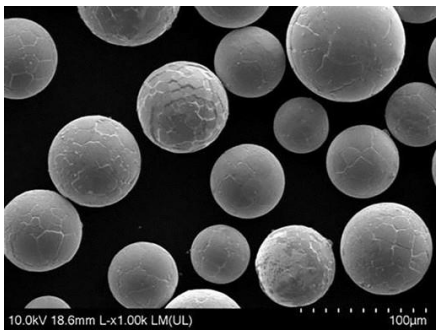
球形钼粉

Spherical Mo Metal Powder



球形钨粉

Spherical W Metal Powder



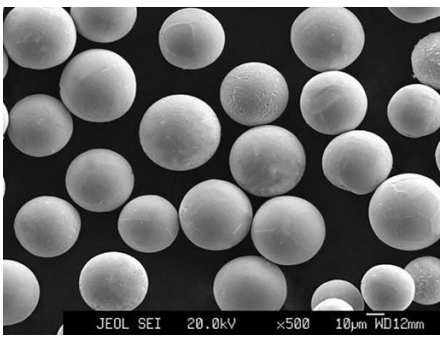
球形钽粉

Spherical Ta Metal Powder

奥泰新材生产的优质增材制造用高熔点等离子球化粉末包括球形钼粉、钨粉、钽粉、铌粉、铬粉、碳化钨硬质合金粉等，具有很高的球形度、纯度，氧含量低，流动性很好，无卫星粉、无孔隙，广泛适用于增材制造或 3D 打印。

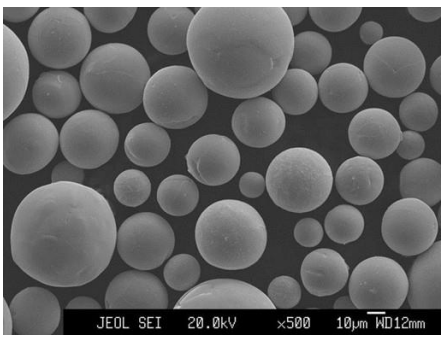
AMTmetalTech produces high quality Plasma Densified High Melting Alloy Powders including Molybdenum, Tungsten, Tantalum, Niobium, Chromium, Tungsten Cemented Carbide Hardmetal Powders etc. for Additive Manufacturing at very High Sphericity, High Purity, Low Oxygen, Good Flowability, Few Satellite Powder, No Porosity. Very good for Additive Manufacturing or 3D Printing etc.

型号 Type	纯度 Purity	氧含量 Oxygen	球形度 Sphericity	粒度 Sizes, um
Mo, W, Ta, Nb, WC-12Co, Cr etc.	≥99.95%	≤0.03%	≥98%	5-25, 15-45, 15-53, 45-90, 45-105, 53-150



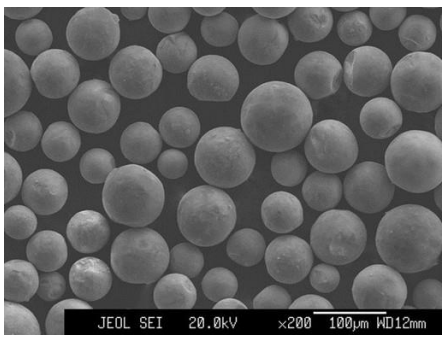
球形铌粉

Spherical Nb Metal Powder



球形铬粉

Spherical Cr Metal Powder

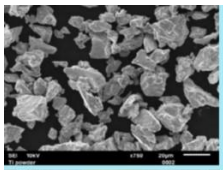
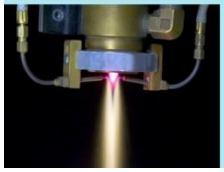
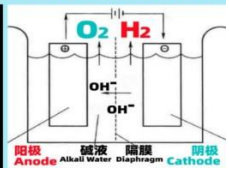


球形硬质合金粉

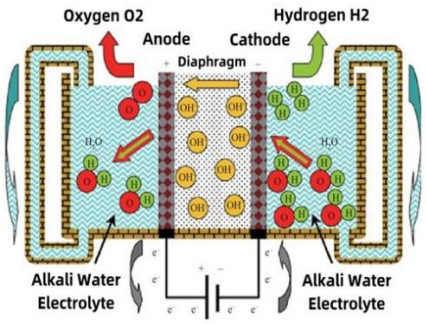
Spherical WC-12Co Powder

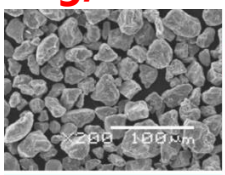
奥泰新材优质冷热喷涂、3D 打印、MIM 用整形钛粉

Top Quality HDH Hydride-dehydride Titanium CPTi & Ti64 Powders for Thermal or Cold Spraying, 3D Printing, MIM etc.

Titanium Powders For Anode





Mech-shaped Ti64 Powders for Spraying / Printing


1. 奥泰新材优质冷热喷涂、3D 打印、MIM 用整形钛粉成分

Top Quality HDH Hydride-dehydride Titanium CPTi & Ti64 Powders for Thermal or Cold Spraying, 3D Printing, MIM Chemical Composition

Type	Ti	Al	V	Fe	C	H	O	N
CPTi1	≥99.5			≤0.15	≤0.08	≤0.05	≤0.18	≤0.03
CPTi2	≥99.5			≤0.15	≤0.08	≤0.05	≤0.25	≤0.03
CPTi4	≥99.5			≤0.15	≤0.08	≤0.05	≤0.40	≤0.03
Ti64G5	Bal.	5.50-6.75	3.50-4.50	≤0.25	≤0.08	≤0.05	≤0.20	≤0.05

2. 奥泰新材优质冷热喷涂、3D 打印、MIM 用整形钛粉特点及应用

Top Quality HDH Hydride-dehydride Titanium CPTi & Ti64 Powders for Thermal or Cold Spraying, 3D Printing, MIM Character and Application

奥泰新材的优质冷热喷涂、3D 打印、MIM 用整形钛粉用氢化脱氢工艺生产，粉末流动性好，常用粒度有 15-45um、20-53um、45-106um 等。广泛用于生物医疗、耐腐蚀、航空航天等涂层及零件。

AMTmetalTech Top Quality World Lowest Price Mechanical Shaped Titanium CPTi & Ti64 Powders made by HDH Hydride-dehydride process have good flow ability, which common sizes are 15-45um, 20-53um, 45-106um for Thermal or Cold Spraying, 3D Printing, MIM, Laser Cladding etc.

3. 奥泰新材优质冷热喷涂、3D 打印、MIM 用整形钛粉包装

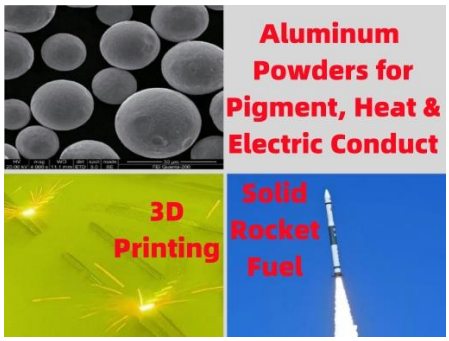
Top Quality World Lowest Price HDH Hydride-dehydride Titanium CPTi & Ti64 Powders for Thermal or Cold Spraying, 3D Printing, MIM Packaging

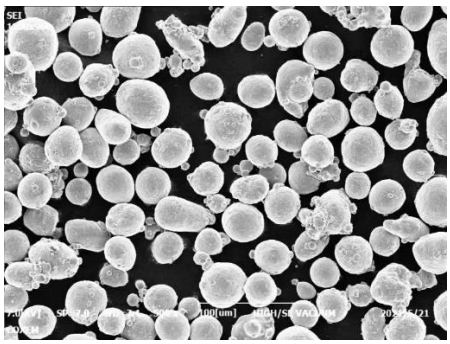
标准包装为每 2.5 公斤一个塑料瓶。其他包装可以定制。

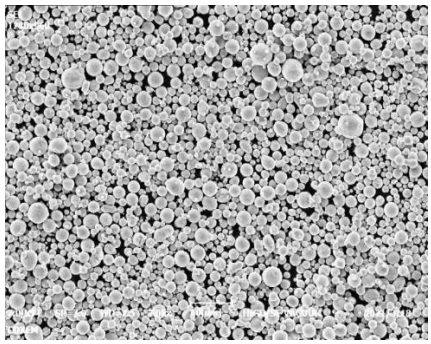
The standard packaging is by plastic bottle per 2.5 kg. We can do according to the customer requirements for packaging.

3D 打印、火箭燃料、导电导热、顶级颜料用球形铝粉

Top Quality Aluminum Powders for 3D Printing, Rocket Propellant, Electric or Heat Conduct, Super Pigment







1. 3D 打印用球形铝合金粉

Top Quality World Low Price Aluminum Alloy Powders AlSi10Mg, AlSi7Mg, AlSi12, 6061, 7075 for 3D Printing etc.

Alloy Type	Si	Mg	Cu	Zn	Ti	Cr	Fe	Mn	Al
AlSi10Mg	9.0-11.0	0.20-0.45	≤0.1	≤0.1	≤0.15	≤0.05	≤0.55	≤0.45	Bal.
AlSi7Mg	6.5-7.5	0.45-0.75	≤0.1	≤0.1	0.08-0.25	≤0.05	≤0.2	≤0.1	Bal.
AlSi12	10.5-13.5	≤0.1	≤0.1	≤0.15	≤0.15	≤0.05	≤0.55	≤0.55	Bal.
6061	0.4-0.8	0.8-1.2	0.15-0.4	≤0.25	≤0.15	0.04-0.35	≤0.7	≤0.15	Bal.
7075	≤0.4	2.1-2.9	1.2-2.0	5.1-6.1	≤0.2	0.18-0.28	≤0.5	≤0.3	Bal.

AMTmetalTech Top Quality World Low Price Aluminum Alloy Printing Powders AlSi10Mg, AlSi7Mg, AlSi12, 6061, 7075 are at Very Good Sphericity, Very Low Oxygen Max. 0.08%. Regular Size 15-53um, 20-63um. Customerized Chemical or Size available. 真空气雾化生产，球形度高，氧含量低于 0.08%。常用粒度 15-53um、20-63um。成分及粒度可定制。

2. 火箭燃料、导电导热、顶级颜料、冶金、化工用球形纯铝粉

Top Quality World Low Price Spherical Pure Aluminum Powder for Rocket Propellant, Electric or Heat Conduction, Super Pigment etc.

Type 型号	Al	Cu	Fe	Si	H2O	Powder Size 粒度 D50, um	Aluminum Powder Applications 铝粉用途
999Al	Bal.	≤0.005	≤0.015	≤0.015	≤0.02	1.5, 2.5, 3.5, 4.5, 5.5, 6.5, 7.5, 8.5, 10 +/-0.5. 12, 14, 16, 18, 20, 22, 25 +/-1 etc.	Super Pigment, Electric or Heat Conduction, Food Exothermic, Metallurgy etc. 顶级燃料、导电导热、食物自热、冶金等
98Al	Bal.	≤0.015	≤0.2	≤0.2	≤0.1		Rocket Propellant etc. 火箭燃料
95Al	Bal.	≤0.1	≤0.5	≤0.5	≤0.2	25-100, 90-150, 75-210, 150-850 etc.	Alloying, Chemical, Explosive etc. 合金、化工、炸药等

AMTmetalTech Aluminum Powder is at Good Sphericity, Narrow Powder Size Distribution, Customerized Chemical or Size are available. 球形度高，粒度分布窄，成分及粒度可定制。

注射成形、模压烧结、软磁合金用雾化超细粉末

MIM Metal Injection Molding, PM Powder Metallurgy or Soft Magnet Steel Atomized Super Fine Alloy Powders

1. 奥泰新材注射成形、模压烧结、软磁合金用雾化超细粉末描述

AMTmetalTech Quality MIM Metal Injection Molding or Soft Magnet Steel Atomized Super Fine Alloy Powders main type and chemical

奥泰新材注射成形、模压烧结、软磁合金用雾化超细粉末可以由高压水气联合雾化或者非真空氮气雾化生产，年产量达 3000 吨。

AMTmetalTech produces MIM Metal Injection Molding or Soft Magnet Super Fine Alloy Powders Gas Shielded High Pressure Water Atomized or Non-vacuum Nitrogen Gas Atomized in 3 thousand tons annually at very competitive quality and pricing.

2. 奥泰新材注射成形、模压烧结、软磁合金用雾化超细粉末粒度分布及氧含量

AMTmetalTech MIM Metal Injection Molding or Soft Magnet Steel Atomized Super Fine Alloy Powders Particle Size Distribution and Oxygen content:

粒度分布 Particle Size Distribution PSD	D10	D50	D90	氧含量 Oxygen
非真空氮气雾化 Non-vacuum Nitrogen Gas Atomize	4-6um	8-13um	18-23um	≤1500PPM
非真空氮气雾化 Non-vacuum Nitrogen Gas Atomize	26-29um	34-39um	46-51um	≤1500PPM
高压水气联合雾化 High Pressure Water Atomize Gas Shield	2-4um	5-9um	15-20um	≤4000PPM

Other type and chemical, Particle Size Distribution is available as inquired.

3. 奥泰新材注射成形、模压烧结、软磁合金用雾化超细粉末包装

AMTmetalTech Quality MIM Metal Injection Molding or Soft Magnet Steel Atomized Super Fine Alloy Powders Packaging

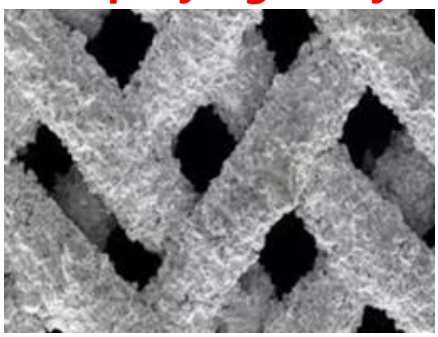
奥泰新材雾化超细粉末包装为 25kg 铁桶，也可以按照客户要求。

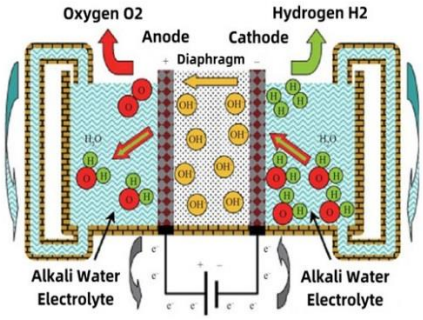
The standard packaging is 25kg per Iron Drum. We can do according to the customer requirements for packaging.

型号 Type	化学成分 Chemical Composition, wt%												
	C	Cr	Ni	Mo	Si	Mn	S	P	V	W	Nb	Cu	Fe
MT-316L	≤ 0.03	16.0 - 18.0	10.0 - 14.0	2.0-3.0	≤ 1.00	≤ 2.00	≤ 0.03	≤ 0.045					Balance
MT-17-4PH	≤ 0.07	15.5 - 17.5	3.0-5.0		≤ 1.00	≤ 1.00	≤ 0.03	≤ 0.04			0.15 - 0.45	3.0 - 5.0	Balance
MT-420 Steel	0.16 - 0.25	12.0 - 14.0	≤ 0.75		≤ 1.00	≤ 1.00	≤ 0.04	≤ 0.03					Balance
MT-M2 High Speed Steel	0.80 - 0.90	3.80 - 4.40	≤ 0.30	4.50 - 5.50	0.20 - 0.45	0.15 - 0.40	≤ 0.03	≤ 0.03	1.75 - 2.20	5.50 - 6.75		≤ 0.25	Balance
MT-H13 High Speed Steel	0.32 - 0.45	4.75 - 5.50		1.1-1.5	0.8-1.2	0.2-0.5	≤ 0.03	≤ 0.03	0.8-1.2				Balance
MT4140 Steel	0.30 - 0.50	0.80 - 1.20		0.20 - 0.30	≤ 0.60	≤ 1.00	≤ 0.03	≤ 0.03					Balance
MT4340 Steel	0.38 - 0.43	0.7-0.9	1.65 - 2.00	0.2-0.3	0.15 - 0.35	0.6-0.8	≤ 0.03	≤ 0.03					Balance
AM-FeSiCr	≤ 0.02	4.0-6.0			3.0-7.0	≤ 0.05	≤ 0.03	≤ 0.03					Balance
AM-FeSiAl	≤ 0.02	≤ 0.02			9.0-10.0		≤ 0.03	≤ 0.03		Al 5.0-6.0			Balance
AM-FeNi50	≤ 0.01		49.0 - 51.0	≤ 0.20	≤ 0.01	≤ 0.15	≤ 0.03	≤ 0.03					Balance
AM-FeSi6.5	≤ 0.02	≤ 1.0			6.3-6.7	≤ 0.15	≤ 0.03	≤ 0.03					Balance
AM-FeSi3.5	≤ 0.02	≤ 1.0			3.3-3.7	≤ 0.15	≤ 0.03	≤ 0.03					Balance

电解氢阴极镍网等离子热喷涂用镍铝钼合金粉

Raney Nickel NiAlMo Powders for Electrolytic Hydrogen Cathode Mesh Plasma Spraying & Hydrogenation Catalyst





NiAlMo 镍铝钼粉等离子热喷涂镍网　　碱水电解制氢原理图

NiAlMo Powder Plasma Sprayed Nickel Mesh　　Alkali Water Electrolytic Hydrogen Schema

1．奥泰新材电解氢阴极镍网等离子热喷涂用镍铝钼合金粉成分

Raney Nickel NiAlMo Powders for Electrolytic Hydrogen Cathode Mesh Plasma Spraying & Hydrogenation Catalyst Chemical Composition

氢能是完全清洁的高效理想新能源。上图右所示碱水电解氢工艺目前在全世界迅速发展，尤其是在欧洲。传统的电解氢发生器阴极采用镍网。为了极大地提高镍网阴极在电解氢中的催化能力，需要在镍网表面制作等离子热喷涂镍铝合金多孔涂层。

Hydrogen is completely the clean ideal energy with high efficiency. Electrolytic Alkali Water production technology, which schematic diagram as above right picture, is now quickly spreading over the world. Traditional hydrogen generators use nickel mesh as the hydrogen generation cathode. For greatly increasing the catalytic capability of generating the hydrogen on the Nickel Mesh Cathode, it is very important to create the porous catalytic coating by Plasma Thermal Spraying on the nickel mesh cathode.

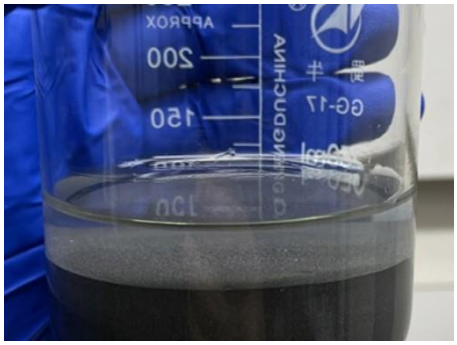
德国航空中心对下图中几十种不同化学成分涂层的研究结果表明，电解氢阴极用镍网表面镍铝合金涂层的最佳成分为 NiAlMo 合金，其中 Al 含量 10-50%，Mo 含量 2-40%为最佳。

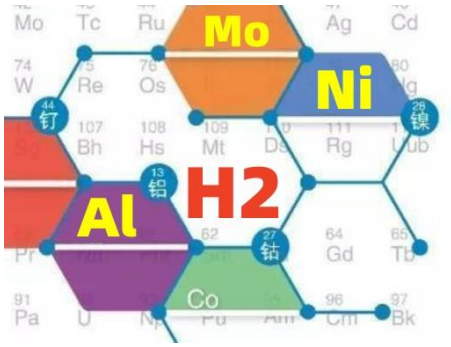
According to the scientist research from many plasma thermal spraying powders as below, the Raney Nickel NiAlMo Nickel Aluminum Molybdenum Alloy coating by plasma thermal spraying is the best to increase the catalytic capability of generating the hydrogen on the coated Nickel Mesh Cathode. This best Nickel Aluminum Molybdenum NiAlMo alloy powder requires high Aluminum content about 10-50% and high Molybdenum content about 2-40%, which is non-disclosure now.

2．奥泰新材电解氢阴极镍网等离子热喷涂用镍铝钼合金粉应用

AMTmetalTech Raney Nickel NiAlMo Powders for Electrolytic Hydrogen Cathode Mesh Plasma Spraying & Hydrogenation Catalyst Applications

Pt/C	$LaNi_{4.9}Si_{0.1}$	Pd/Au
Polished Ni		Ni–Sn
Co/C	Ti_2Ni	Ni–S–Co
		Ni_3Al
Ni_1Co_9/C	$Ni_{60}Mo_{40}$	Ni_3Al–Mo
Raney Ni		Ni-S–Mn
Ni–Cr Raney	Ni–S	$Ni_{81}P_{16}C_3$
$Ni_{64}W_{36}$		$Ni_{62}Fe_{35}C_3$
	Fe–Mo	Ni–Co
$MmNi_{3.3}Co_{0.75}Mn_{0.4}Al_{0.27}$	Ni–(Ebonex-Ru)	$Fe_{94}P_4Ce_2$





电解氢热喷涂粉末催化剂对比成分 镍铝钼粉用于加氢催化剂

Plasma Spraying Powders Catalyst Tested Raney Nickel NiAlMo Powders for Hydrogenation Catalyst

生产均匀低氧的原料熔点差异很大的三元高铝高钼的镍合金粉末有较大的挑战性。奥泰新材世界优质电解氢阴极镍网等离子热喷涂用镍铝钼合金粉末采用真空气雾化工艺生产，加氢催化用镍铝钼合金粉末采用熔炼破碎工艺生产。

To produce the high Aluminum & high Molybdenum Nickel alloy NiAlMo powder for melting 3 metals of very big difference melting temperature with homogeneous chemical composition & low oxygen is big challenging. AMTmetalTech is producing Top Quality World Lowest Price NiAlMo high Aluminum & high Molybdenum alloy plasma thermal spraying powders by Vacuum Gas Atomize, and Raney Nickel Powders for Hydrogenation Catalyst by Melting and Crushing in many tons monthly.

奥泰新材世界优质电解氢阴极镍网等离子热喷涂用镍铝钼合金粉末的典型粒度为 25-63um。奥泰新材世界优质加氢催化用镍铝钼合金粉末的典型粒度为 100-300 目、80-150 目、60-100 目、30-80 目等。奥泰新材可以定制电解氢阴极镍网等离子热喷涂及加氢催化用其他成分粒度的镍铝钼合金粉末。

The typical Raney Nickel NiAlMo powder size for Electrolytic Hydrogen Cathode Mesh Plasma Thermal Spraying is 25-63um. The typical Raney Nickel NiAlMo powder size for Hydrogenation Catalyst is 100-300 mesh, 80-150mesh, 60-100mesh, 30-80mesh etc. Other chemical composition and size of Nickel Aluminum Molybdenum Alloy Powder can be customized as well.

3．奥泰新材电解氢阴极镍网等离子热喷涂用镍铝钼合金粉包装

AMTmetalTech Raney Nickel NiAlMo Powders for Electrolytic Hydrogen Cathode Mesh Plasma Spraying & Hydrogenation Catalyst Packagings

奥泰新材世界优质电解氢阴极镍网等离子热喷涂用镍铝钼合金粉包装为 5kg 塑料袋或塑料瓶。加氢催化用镍铝钼合金粉末包装为 50kg 铁桶或粉末泡水入塑料桶。

Packaging of Raney Nickel NiAlMo powder for Electrolytic Hydrogen Cathode Mesh Plasma Thermal Spraying is 5kg plastic bag or bottle. Packaging of Raney Nickel NiAlMo powder for Hydrogenation Catalyst is 50kg Iron Drum or Plastic Drum with powder immersed water.

氢能用钛及镍毡、铱系铑系铂系钛阳极

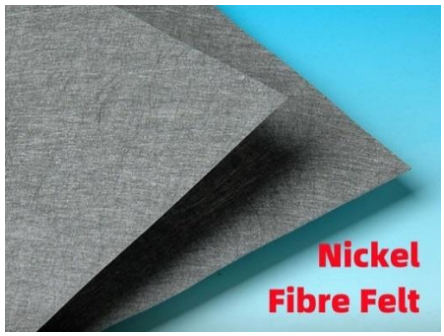
Titanium or Nickel Felt & Iridium or Ruthenium Mixed Metal Oxide Coated, Platinum Plated Electrolysis Hydrogen Titanium Anode

1. 奥泰新材氢能气体扩散层用钛及镍粉毡、纤维毡

AMTmetalTech Top Quality Titanium & Nickel Powder or Fibre Felt for Porous Transport Layer PTL or Gas Diffusion Layer in Hydrogen Energy Industry

钛及镍纤维毡、粉毡
Ti, Ni Fibre or Powder Felt

钛粉毡
Titanium Powder Felt



镍纤维毡
Nickel Fibre Felt

奥泰新材生产持续稳定优质有竞争力的氢能工业气体扩散层用钛及镍粉、纤维毡具有均匀的高比表面。

AMTmetalTech produces continuous consistent Top Quality World Low price Titanium & Nickel Powder or Fibre Felt for Porous Transport Layer PTL or Gas Diffusion Layer in Hydrogen Energy Industry from micron Titanium & Nickel powder or fibre at homogeneous high surface area.

2. 奥泰新材氢能气体扩散层用钛及镍粉毡、纤维毡规格

AMTmetalTech Titanium & Nickel Powder or Fibre Felt for Porous Transport Layer PTL or Gas Diffusion Layer in Hydrogen Energy Industry Specifications

Porous Transport Layer PTL or Gas Diffusion Layer GDL 气体扩散层	Typical Thickness, 厚度 mm	Thickness Tolerance, 厚度公差 mm	Size, 尺寸 mm2	Porosity 孔隙率
Titanium Powder Felt for Proton Exchange Membrane PEM Water Electrolysis or Nickel Powder Felt for Alkaline Water Electrolysis AWE Water Electrolysis PEM 电解氢用钛粉毡，AWE 电解氢用镍粉毡	0.25, 0.40, 0.60, 0.80, 1.0-2.0	≤0.04	up to 1000 x 1000	30-50%
Titanium Fibre Felt for Proton Exchange Membrane PEM Water Electrolysis or Nickel Fibre Felt for Alkaline Water Electrolysis AWE Water Electrolysis PEM 电解氢用钛纤维毡，AWE 电解氢用镍纤维毡	0.25, 0.40, 0.60, 0.80, 1.0-5.0	≤0.04	up to 1200 x 1200	20-90%

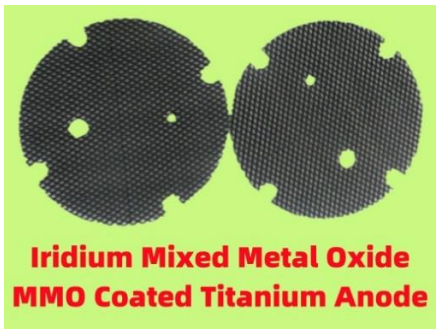
3. 奥泰新材电解电镀制碱水处理用铱系铑系铂系钛阳极种类

AMTmetalTech Top Quality Iridium or Ruthenium Mixed Metal Oxide Coated, Platinum Plated Electrolysis Hydrogen Titanium Anode Type

Mixed Metal Oxide Coated Titanium Anode Type MMO 涂层钛阳极	Iridium Mixed Metal Oxide Coated Titanium Anode 铱系氧化物涂层钛阳极	Ruthenium Mixed Metal Oxide Coated Titanium Anode 钌系氧化物涂层钛阳极	Platinum Plated Titanium Anode 镀铂钛阳极
Mixed Metal Oxide Coated Titanium Anode Function MMO 涂层钛阳极功能	Oxygen Evolution Titanium Anode 析氧型钛阳极	Chlorine Evolution Titanium Anode 析氯型钛阳极	Healthy Ionized Water Evolution Titanium Anode 离子水用钛阳极
Mixed Metal Oxide Coated Titanium Anode Application MMO 涂层钛阳极应用	Titanium Anode for Electrolysis Hydrogen, Titanium Anode for Plating, Titanium Anode for Cathode Protection 电解氢用钛阳极，电镀用钛阳极，阴极保护用钛阳极	Titanium Anode for Chlorine Alkali Deposition, Titanium Anode for Sewage Treatment, Titanium Anode for Seawater Desalination, Titanium Anode for Metal Electrowinning 氯碱用钛阳极，污水处理用钛阳极，海水淡化用钛阳极，电解阴极金属用钛阳极	Electolysis Water Disinfection Titanium Anode 电解水消毒用钛阳极

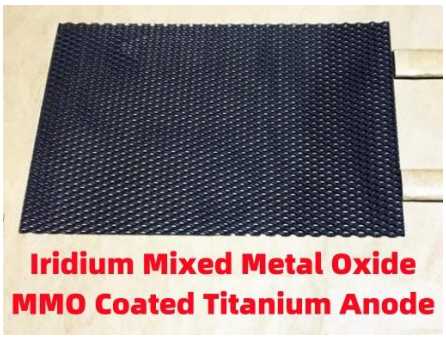
4. 奥泰新材电解电镀制碱水处理用铱系铑系铂系钛阳极应用

AMTmetalTech Quality Iridium or Ruthenium Mixed Metal Oxide Coated, Platinum Plated Electrolysis Hydrogen Titanium Anode Application

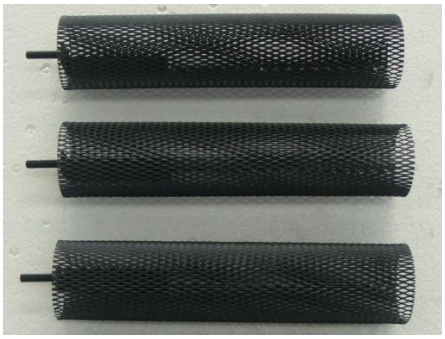


电解氢钛阳极
Electrolysis Hydrogen Ti Anode

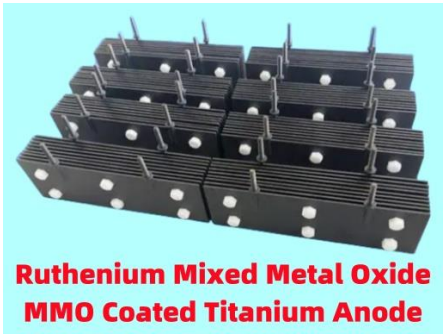
析氧钛阳极
Oxygen Evolution Ti Anode



铱系钛阳极
Iridium MMO Coated Ti Anode



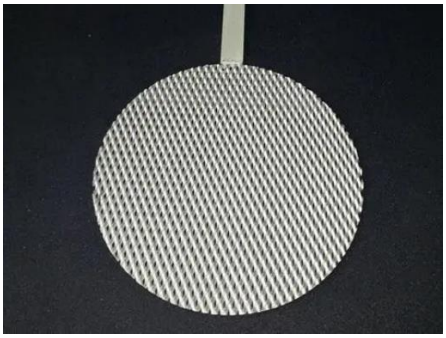
海水淡化钛阳极
Seawater Desalination Ti Anode



氯碱用钛阳极
Ti Anode for Chlorine Alkali

铑系钛阳极
Ruthenium MMO Coated Ti

镀铂钛阳极
Platinum Plated Ti Anode



离子水钛阳极
Ionized Water Ti Anode

消毒水钛阳极
Water Disinfection Ti Anode

奥泰新材优质喷涂、EDM 及灯用钼镧丝

Top Quality World Lowest Price Molybdenum Lanthania MoLa Wire for Thermal Spraying, Filament & EDM

1. 奥泰新材优质喷涂、EDM 及灯用钼镧丝化学成分

Top Quality World Lowest Price Molybdenum Lanthania MoLa Wires for Thermal Spraying, Filament & EDM Chemical Composition (wt%, max. for Impurities)

型号 Type	Fe	Ni	Al	Si	Ca	C	N	La2O3	Mo
AMMo1	0.010	0.005	0.002	0.010	0.002	0.010	0.002	-	≥99.95
AMMoLa	0.010	0.005	0.002	0.010	0.002	0.010	0.002	0.2-0.6	余量 Balance

2. 奥泰新材优质喷涂、EDM 及灯用钼镧丝再结晶温度

Top Quality World Lowest Price Molybdenum Lanthania MoLa Wires for Thermal Spraying, Filament & EDM Molybdenum Wire Recrystallization Temperature

型号 Type	AMMo1	AMMoLa
再结晶温度 Molybdenum Wire Recrystallization Temperature	>1100°C	>1500°C

3. 奥泰新材优质喷涂、EDM 及灯用钼镧丝包装

Top Quality World Lowest Price Molybdenum Lanthania MoLa Wires for Thermal Spraying, Filament & EDM Packaging

AMTmetalTech finest diameter of Molybdenum or Lanthania MoLa Wire can be 0.02mm, black or white. Wire d0.8-1.6mm Packaging 12.5kg/Plastic Spool in Carton. 10kg, 15kg, 20kg/coil in Paper Drum at Coil D400-600mm for Wire d0.8-2.0mm or Coil D600-800mm for Wire d2.0-3.2mm. Specified Control Wire Tensile Strength, Elongation, Diameter Tolerance, Length are available.

4. 奥泰新材优质喷涂、EDM 及灯用钼镧丝应用

Top Quality World Lowest Price Molybdenum Lanthania MoLa Wires for Thermal Spraying, Filament & EDM Application

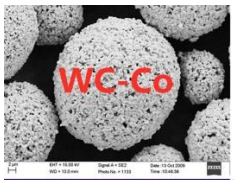
热喷涂马达、涡轮、齿轮、轴等高性能零件用钼丝，车灯用钼丝，线切割钼丝。
Molybdenum Lanthania MoLa Wire for Filament / EDM / Thermal Spraying quality parts in the Motor, Turbine, Gear, Shaft etc. of good wear resistance.

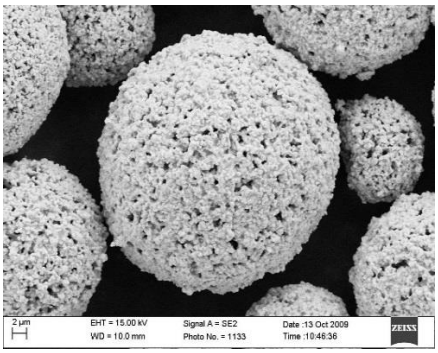
其他规格可以根据客户要求定制。

Other specifications can be available as per customers' requirements.

奥泰新材优质团聚烧结超细碳化钨硬质合金热喷涂粉

Top Quality World Low Price Agglomerated Sintered Tungsten Carbide WC-Co Fine Powders for HVOF or HVAF Thermal Spraying





1. 奥泰新材优质团聚烧结超细碳化钨硬质合金热喷涂粉

AMTmetalTech Quality Tungsten Carbide Cemented Hardmetal Powders

奥泰新材作为世界领先的超耐磨超耐侵蚀涂层粉末供应商，出口欧美日本已达 22 年。奥泰新材的优质碳化钨硬质合金热喷涂粉采用全部原生料，24 小时以上球磨均匀混合后，经过喷雾干燥造粒球形度很好，真空烧结精确控制松装密度，超声波振动筛及气流分级控制粒度分布一致性很好，从而保障客户可以获得满意的涂层性能。

AMTmetalTech as the World Metallurgy Leader of Severe Erosion and Super Abrasion Resist, exports our Top Quality Tungsten Carbide Cemented Hardmetal Powders for thermal spraying to Germany, USA and Japan for over 22 years. AMTmetalTech Quality Tungsten Carbide Cemented Hardmetal Fine Powders for HVOF or HVAF or Plasma thermal spraying are made all from virgin raw material, with more than 24 hours milling to be very homogeneous mixed and then Spray-dried to be very round powders, Vacuum sintered to be controlled hall density, Supersonic sieved and Gas classified to be very consistent particle sizes, to make Customers getting satisfied coating.

奥泰新材的优质团聚烧结碳化钨硬质合金热喷涂粉晶粒度可以细到 0.5um，超细粉末可以用于内管及连铸结晶器内壁超音速热喷涂。奥泰新材提供各种工件热喷涂过程中冶金问题的免费咨询。除了下表中的常见牌号，更多牌号欢迎来询。

AMTmetalTech Quality Agglomerated and Sintered Tungsten Carbide Hardmetal Fine Thermal Spraying Powders grain size can be down to 0.5um. The fine size cut can be good for Tube inside coating including Crystallizers of Continuous Casting. AMTmetalTech is pleased to answer your any Metallurgy questions free of charge during thermal spraying. The specifications in the below table are our main. Please send us your inquiry if you required is not in the following table.

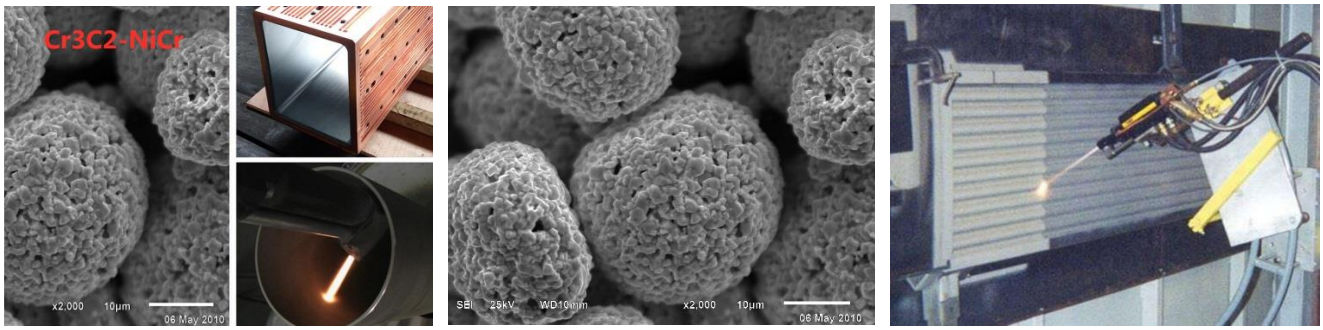
奥泰新材优质团聚烧结超细碳化钨硬质合金热喷涂粉主要品规如下：

Quality Tungsten Carbide Hardmetal Fine Powders Specifications

Name 奥泰型号	Powder Type 成分	Powder Size 粒度	Reference Products 参考产品			Properties/Applications 性能/应用
			Metco	Praxair	Starck	
AM86104-0520	WC-10Co-4Cr	5-20um	WOKA 3661FC		558.052	●Excellent Flowability 流动性好 ●Hard chrome replacement 可代镀铬 ●Excellent abrasion and erosion resistance 耐磨耐侵蚀优异 ●Smooth and Tough coatings with fine micro structure and high bond strength 涂层细致、光滑、结合强度高、韧性好 ●Useable in wet corrosion environments 可耐湿腐蚀 ●Temperature up to 500℃ 耐高温可达 500℃ ●Suitable for Paper Rolls, Gate and Ball Valves, Hydraulic Cylinders etc. 适用于造纸辊、阀门、液压支柱等
AM86104-0530	WC-10Co-4Cr	5-30um	WOKA 3654FC	WC731-6	556.059 558.059	
AM86104-1038	WC-10Co-4Cr	10-38um	WOKA 3655	1350VF	557.072 558.072	
AM86104-1545	WC-10Co-4Cr	15-45um	WOKA 3652	1350VM	557.074 558.074	
AM86104-2053	WC-10Co-4Cr	20-53um	WOKA 3651		558.088	
AM8812-0520	WC-12Co	5-20um	WOKA 3111FC			●Excellent Flowability 流动性好 ●Tough and Dense coating with fine microstructure 涂层细致、密度高、韧性好 ●Smooth and Hard coating with High Bond Strength 涂层光滑、硬度和结合强度高 ●High resistance to Abrasion, Erosion and Sliding Wear 高耐磨、耐侵蚀、耐滑动磨损 ●Temperature up to 500℃ 耐高温可达 500℃ ●For Paper Mill Rolls, Pump Parts, Oilfield Apparatus, Wire Drawing Equipment, Fan and Compressor Blades, Machine Parts etc. 适用于造纸辊、泵、油田及拉丝设备、风机及压缩机叶片、机器零件等。
AM8812-0530	WC-12Co	5-30um	WOKA 3110FC	WC727-6	518.059 519.059	
AM8812-1038	WC-12Co	10-38um	WOKA 3105 WOKA 3104	1342VF	518.072 519.072	
AM8812-2053	WC-12Co	15-45um	WOKA 3102 WOKA 3103	1342VM	518.074 519.074	
AM8812-1546	WC-12Co	20-53um	WOKA 3101		518.088 519.088	
AM8317-1038	WC-17Co	5-30um	WOKA 3204	WC729-5	526.059	●High Toughness and Ductility, High Fretting resistance 高韧性、高塑性、耐振动磨损好 ●Not for wet corrosion environments 不适于湿腐蚀 ●Temperature up to 500℃ 耐高温可达 500℃ ●Suitable for Crushing Rolls, Extrusion Dies etc 适用于破碎辊、挤压模具等
AM8317-0531	WC-17Co	10-38um	WOKA 3205	1343VF	526.062	
AM8317-1545	WC-17Co	15-45um	WOKA 3202 WOKA 3203	1343VM	526.074	
AM8812N-0530	WC-12Ni	5-30um	WOKA 3408 WOKA 3404		547.059	●Good Resist to hammers, fretting, abrasion and sliding wear 抗冲击、振动。滑动磨损 ●More corrosion-resistant and tougher than WC-Co, but lower hardness 比 WC-Co 更耐腐蚀韧性更好，但硬度低 ●Temperature up to 500℃ 耐高温可达 500℃ ●Suitable for Valves, Oil Field and Radioactive environments etc. 可用于阀门、油田及辐射环境
AM8812N-1545	WC-12Ni	15-45um	WOKA 3402 WOKA 3403	1310VF	547.074	
AM8812N-2053	WC-12Ni	20-53um	WOKA 3401	1310VM	547.088	

奥泰新材优质耐高温侵蚀耐磨的团聚烧结超细碳化铬热喷涂粉

AMTmetalTech Top Quality Agglomerated Sintered Chrome Carbide Cr3C2-NiCr Fine Powders for HVOF or HVAF Thermal Spraying



1. 奥泰新材优质耐高温侵蚀耐磨的团聚烧结超细碳化铬热喷涂粉主要品规如下：

AMTmetalTech Top Quality Agglomerated Sintered Chrome Carbide Cr3C2-NiCr Fine Powders for Thermal Spraying main Specifications

Name 型号	Powder Type 成分	Particle Size 粒度	Reference Products 参考产品			Properties/Applications 性能/应用
			Metco	Praxair	AMPERIT	
AM7525-0525	Cr3C2 25NiCr	5-25um	WOKA 7210			Excellent for High Temperature Cavitation, Abrasion and Sliding Wear resist 耐高温气蚀、侵蚀及滑动磨损优异 Very Good Hot Gas and Corrosion resist 耐热气腐蚀很好 Used Temperature up to 870℃ 耐高温可达 870℃ Suitable for Valve Stems, Turbine, Fuel Rod Mandrels etc. 适用于阀杆、发动机、燃料棒芯等
AM7525-1038	Cr3C2 25NiCr	10-38um	WOKA 7205, 7204	1375 VF	584.072	
AM7525-1545	Cr3C2 25NiCr	15-45um	WOKA 7202, 7203	1375 VM	588.074 584.054	
AM7525-2053	Cr3C2 25NiCr	20-53um	WOKA 7201, 7207		588.088	
AM7525-0545	Cr3C2 25NiCr	5-45um, Blend	Amdry 367, Metco 81VF-NS		585.003	
AM8020-1038	Cr3C2 20NiCr	10-38um	WOKA 7105, 7104			
AM8020-1545	Cr3C2 20NiCr	15-45um	WOKA 7102	CRC-351	586.1 586.054	

2. 奥泰新材优质耐高温侵蚀耐磨的团聚烧结超细碳化铬热喷涂粉特点及应用

AMTmetalTech Top Quality Agglomerated Sintered Chrome Carbide Cr3C2-NiCr Powders for Thermal Spraying Character and Applications

奥泰新材的优质团聚烧结碳化铬热喷涂粉采用超细原料，超细粉末可以用于内管及连铸结晶器内壁超音速热喷涂。奥泰新材的价值观是诚信第一、世界优质。

AMTmetalTech Quality Agglomerated and Sintered Chrome Carbide Nickel Chrome Cr3C2-NiCr Fine Powders for HVOF or HVAF or Plasma thermal spraying are made all from very fine raw material. The fine size cut can be good for High Temperature Resist Tube inside coating including Crystallizers of Continuous Casting. The Philosophy of AMTmetalTech is Honest and World Top Quality, Quickest Delivery and Most Competitive Pricing.

奥泰新材优质碳化铬热喷涂粉密度是碳化钨的一半，适于在航空、冶金、电力等行业中的气阀、炉底辊、汽轮机轴及座、锅炉过热器管等工件上用 HVOF 及 HVAF 超音速火焰或等离子喷涂制造耐高温侵蚀、耐磨的优质涂层。

AMTmetalTech Quality Chrome Carbide Nickel Chrome Powders are half density as Tungsten Carbide, for producing High Temperature Erosion and Abrasion resist coatings by HVOF or HVAF, Plasma Thermal Spraying, which for Gas Valves, Furnace Bottom Rolls, Turbine Shaft and Housing, Boiler Superheater Tube etc. in Aerospace, Metallurgical, Power Plant industries.

热喷涂锅炉过热器管
Boiler Superheater Tube

热喷涂汽轮机轴及座
Thermal Spraying Turbine

热喷涂炉底辊
Furnace Bottom Roll

3. 奥泰新材优质耐高温侵蚀耐磨的团聚烧结超细碳化铬热喷涂粉包装

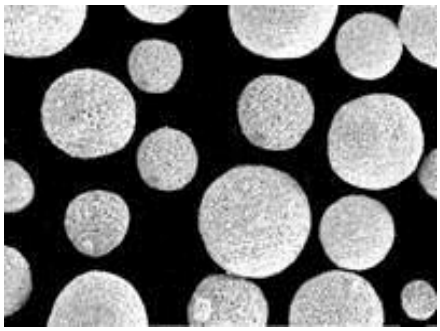
Top Quality Agglomerated Sintered Chrome Carbide Cr3C2-NiCr Fine Powders for HVOF / HVAF / Plasma Thermal Spraying Packaging

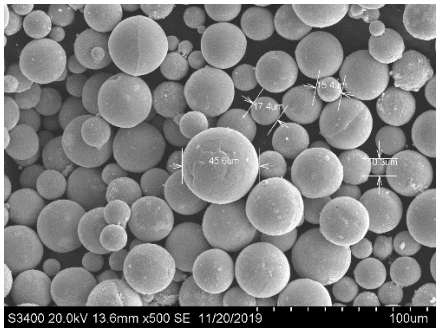
奥泰新材碳化铬热喷涂粉标准包装为每 5 公斤一个塑料桶。其他包装可以定制。

The standard packaging is by plastic bottle per 5kg. We can do the other packaging according to the customer requirements.

奥泰新材优质等离子喷涂钼粉及药芯焊丝用破碎钼粉

AMTmetalTech Quality Agglomerated Sintered Molybdenum Powders for Plasma Spraying and Cored Wire





1. 奥泰新材优质等离子喷涂钼粉及药芯焊丝用破碎钼粉的主要品规如下：

AMTmetalTech Quality Agglomerated Sintered Molybdenum Powders for Plasma Spraying and Cored Wire main Specifications

Name 型号	Powder Type 成分	Particle Size 粒度	Reference Products 参考产品			Properties/Applications 性能/应用
			Metco	Praxair	AMPERIT	
AMMoAS2053	Mo 99.5 Agglomerated Sintered	20-53um 团聚烧结	WOKA 4063		105.074	● Good Heat Conduct, Low Expansion, Self-bonding to Metals 高导热，低热胀，涂层结合强度高 ● Natural Lubricity and High Hardness 自润滑、高硬度 ● Good Wear, Heat Impact and Liquid Metal Resist 高耐磨，抗热冲击，耐液态金属 ● Adhesive and Electric Arc Erosion Resist 抗粘接、抗电弧侵蚀 ● Oxidizing Temperature up to 320℃ 抗氧化温度达 320℃ ● Suitable for Plasma Spraying Electrodes, Valves, Gears, Piston Rings, Pump and Axis Parts etc. 适用于等离子喷涂电极、阀门、齿轮、活塞环、泵轴等
AMMoAS4590	Mo 99.5 Agglomerated Sintered	45-90um 团聚烧结		Mo-130-1	105.002	
AMMoPD1545	Mo 99.5 Plasma Densified	15-45um 等离子雾化				
AMMoPD4590	Mo 99.5 Plasma Densified	45-90um 等离子雾化	Amdry 313X	MO-102		
AMMoSC1563	Mo 99.0 Sintered Crushed	15-63um 烧结破碎			106.062	
AMMoSC3890	Mo 99.0 Sintered Crushed	38-90um 烧结破碎	WOKA 63NS		106.002	
AMMoB	Mo-25（Ni-17Cr-3.5B-4Si-4Fe）	Blend 混合	Amdry 1371	AI-1054	119.075	

2. 奥泰新材优质等离子喷涂钼粉及药芯焊丝用破碎钼粉的特点及应用：

AMTmetalTech Quality Agglomerated Sintered Molybdenum Powders for Plasma Spraying and Cored Wire Character and Applications

奥泰新材的团聚烧结喷涂钼粉球形度高，烧结破碎钼粉形状控制好，等离子雾化钼粉球形度很好且密度高。所有粉末采用优质原生料，粒度均匀一致，流动性好。奥泰新材的价值观是诚信第一、世界优质。

AMTmetalTech Agglomerated and Sintered Molybdenum Powders have good Sphericity. AMTmetalTech Sintered and Crushed Molybdenum Powders have good controlled Particle Shape. AMTmetalTech Plasma Densified Molybdenum Powder has very good sphericity and high density. All AMTmetalTech Molybdenum Powders for Plasma thermal spraying are made from fine virgin raw material, have good flow ability and consistent sizes. The Philosophy of AMTmetalTech is Honest and World Top Quality, Quickest Delivery and Most Competitive Pricing.

奥泰新材优质喷涂钼粉适于在汽车、航空、冶金、电力等行业中等离子热喷涂自润滑耐磨、高导热低热胀、抗热冲击耐液态金属、抗粘接抗电弧侵蚀的涂层工件。

AMTmetalTech quality Molybdenum Plasma Spraying Powders are widely used for Plasma Spraying the Self Lubricated and Wear Resist, Heat Conduct and Low Expansion, Heat Impact and Liquid Metal Resist, Adhesive and Arc Erosion Resist parts in Auto, Airplane, Metallurgical and Power industries etc.

热喷涂钼涂层活塞环

Moly Coated Piston Rings

热喷涂钼涂层电极

Moly Coated Electrodes

热喷涂钼涂层齿轮

Moly Coated Gears

3. 奥泰新材优质等离子喷涂钼粉及药芯焊丝用破碎钼粉的包装

AMTmetalTech Quality Agglomerated Sintered Molybdenum Powders for Plasma Spraying and Cored Wire Packaging

奥泰新材等离子喷涂钼粉标准包装为每 5 公斤一个塑料桶。其他包装可以定制。

The standard packaging is by plastic bottle per 5kg. We can do the other packaging according to the customer requirements.

筛目及粉末粒度对照表

Mesh Size and Particle Size Conversion Chart

A.S.T.M. MESH	TYLER MESH	I.S.S MESH	MICRON	IN MM
5	5	——	4000	4.00
7	7	280	2812	2.81
10	9	200	2057	2.05
12	10	170	1680	1.68
14	12	150	1405	1.40
16	14	120	1240	1.20
18	16	100	1003	1.00
20	20	85	850	0.85
25	24	70	710	0.71
35	32	50	500	0.50
40	35	40	420	0.42
45	42	35	355	0.35
50	48	30	300	0.30
60	60	25	250	0.25
70	65	20	210	0.21
80	80	18	180	0.18
100	100	15	150	0.15
120	115	12	125	0.12
140	150	10	105	0.10
170	170	9	90	0.09
200	200	8	75	0.075
230	250	6	63	0.063
270	270	5	53	0.053
325	325	4	45	0.045
400	400	——	37	0.037
500	500	——	25	0.025
625	625	——	20	0.020
美国标准筛目数对照	泰勒标准筛目数对照	国际标准筛目数对照	微米对照	毫米对照

抗拉强度与维氏、布氏、洛氏的硬度对照表

Hardness Conversion with Tensile Strength

抗拉强度 Tensile Strength	维氏硬度 Hardness	布氏硬度 Hardness	洛氏硬度 Hardness	抗拉强度 Tensile Strength	维氏硬度 Hardness	布氏硬度 Hardness	洛氏硬度 Hardness
Rm N/mm²	HV	HB	HRC	Rm N/mm²	HV	HB	HRC
250	80	76	–	1555	480	456	47.7
350	110	105	–	1595	490	466	48.4
450	140	133	–	1630	500	475	49.1
545	170	162	–	1665	510	485	49.8
660	205	195	–	1700	520	494	50.5
755	235	223	–	1740	530	504	51.1
770	240	228	20.3	1775	540	513	51.7
785	245	233	21.3	1810	550	523	52.3
800	250	238	22.2	1845	560	532	53
820	255	242	23.1	1880	570	542	53.6
835	260	247	24	1920	580	551	54.1
850	265	252	24.8	1955	590	561	54.7
865	270	257	25.6	1995	600	570	55.2
880	275	261	26.4	2030	610	580	55.7
900	280	266	27.1	2070	620	589	56.3
915	285	271	27.8	2105	630	599	56.8
930	290	276	28.5	2145	640	608	57.3
950	295	280	29.2	2180	650	618	57.8
965	300	285	29.8		660		58.3
995	310	295	31		670		58.8
1030	320	304	32.2		680		59.2
1060	330	314	33.3		690		59.7
1095	340	323	34.4		700		60.1
1125	350	333	35.5		720		61
1115	360	342	36.6		740		61.8
1190	370	352	37.7		760		62.5
1220	380	361	38.8		780		63.3
1255	390	371	39.8		800		64
1290	400	380	40.8		820		64.7
1320	410	390	41.8		840		65.3
1350	420	399	42.7		860		65.9
1385	430	409	43.6		880		66.4
1420	440	418	44.5		900		67
1455	450	428	45.3		920		67.5
1485	460	437	46.1		940		68
1520	470	447	46.9				

质量方针
Quality Policy

质量宗旨
Quality Principle

换位思考！义在利先！预防风险！

第一次就做正确！

1、Transpositonal Consideration,

2、Righteousness, Prevent Risk,

3、Do eveything Correctly the first time.

人才观
Talent Policy

讲客户、讲主动、讲职责、讲效果

1、Customer Firstly,

2、Initiative,

3、Responsible,

4、Effective.

工作作风
Work Style

诚心、耐心、细心、恒心

1、Honest, 2、Patient,

3、Careful, 4、Stable and Persist.

工作准则
Work Criterion

追根究底、系统具体

1、Get to the Bottom,

2、Systematic and Specific.

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