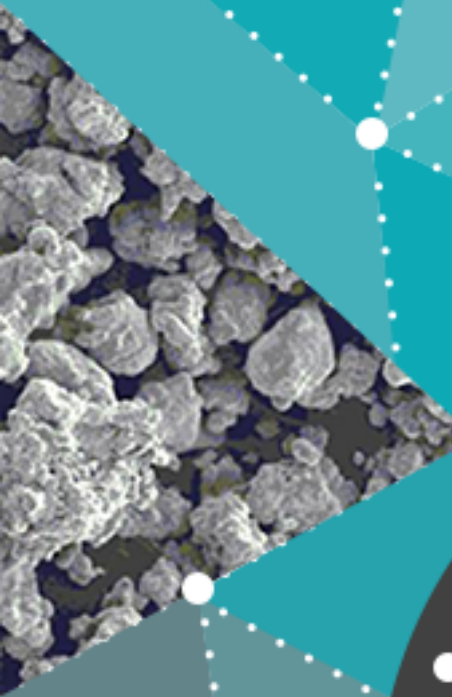






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AI-based Metal Powder

 Tel: 1-631-869-4956

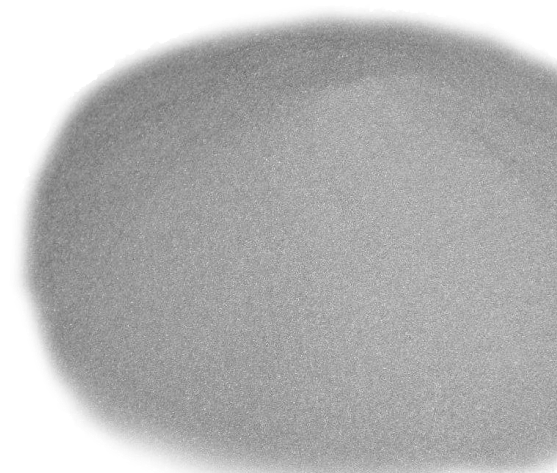
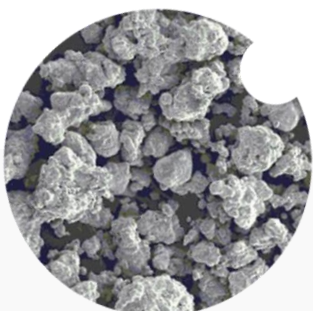
 Fax: 1-631-910-2166

 Email: info@matexcel.com

Al-based Metal Powder

Aluminum alloys possess a number of very attractive characteristics, which can be heat-treated to enhance the superior properties of strength, workability, thermal, electrical conductivity and corrosion resistance while maintaining low weight. These advantages make them extremely attractive for many applications. Aluminum alloys are widely used in different industrial applications including shipbuilding and marine industries, aerospace, automotive and rail industry with the continuing drive to reduced weight and improved efficiency. Aluminum alloys have been the primary material of choice for structural components of aircraft since about 1930. Although polymer matrix composites are being used extensively in high-performance military aircraft and are being specified for the major structural weight of the new Boeing 787 and Airbus A350, aluminum alloys will continue to be used for many commercial and military applications. Since aluminum comprises 8% of the Earth's crust by weight, the overall reserves are adequate to cope with anticipated demands for the foreseeable future.

Nowadays, Aluminum alloys take obviously the first rank in nonferrous materials from the viewpoints of both production and consumption. **Matexcel** provides multi-functional Al-based alloys, from fine powders to nanostructured forms. Our products are widely used in aerospace, home appliances, electric heaters, and infrared devices. Welcome to contact us for more information.



Products List

Cat. NO.	Product Name	Components
MET-0042	Aluminum-based 2014 Powder	Si <0.5; Mn 0.3-0.9; Cr <0.1; Zn <0.25; Mg 1.2-1.8; Cu 3.8-4.9; Ti <0.15; Fe <0.5; Al Bal.
MET-0043	Aluminum-based 6061 Powder	Si 0.4-0.8; Mn <0.15; Cr 0.04-0.35; Zn <0.25; Mg 0.8-1.2; Cu 0.15-0.4; Ti <0.15; Fe <0.7; Al Bal.
MET-0044	Aluminum-based 7055 Powder	Si <0.4; Mn <0.3; Cr 0.18-0.28; Zn 5.1-6.1; Mg 2.1-2.9; Cu 1.2-2.0; Ti <0.2; Zr 0.08-0.25; Fe <0.5; Al Bal.
MET-0045	Aluminum-based 7075 Powder	Si <0.1; Mn <0.05; Cr <0.04; Zn 7.6-8.4; Mg 1.8-2.3; Cu 2.0-2.6; Ti <0.06; Zr 0.08-0.25; Fe <0.15; Al Bal.
MET-0046	Aluminum-based AlSi10Mg(ZL104) Powder	Si: 10-11; Mg: 0.4-0.45; Fe: 0.14-0.55; Cu: <0.05; Mn: <0.01-0.45; Al: Bal; Ni: <0.01-0.05; Zn: <0.01-0.1; Pb: <0.01-0.05; Sn: <0.01-0.05; Ti: <0.01-0.15; O: <0.05
MET-0047	Aluminum-based AlSi12(ZL102) Powder	Fe: ≤0.25; Mn: ≤0.1; Si: 11.00-13.00; Zn: ≤0.2; Al: Bal; Cu: ≤0.3; Mg: ≤0.1; Pb: ≤0.02; Sn: ≤0.02; O: <0.05
MET-0048	Aluminum-based AlSi7Mg(ZL101) Powder	Si: 6.5-7.5; Mg: 0.25-0.45; Al: Bal; O: <0.05
MET-0049	Aluminum-based 7A04 Powder	Cu: 1.4-2.0; Mn: 0.2-0.6; Mg: 1.8-2.8; Cr: 0.1-0.25; Zn: 5.0-7.0; Al: Bal; Si: 0.5; Fe: 0.5; Ti: 0.1; O: <0.05; Res Each: 0.05; ResTotal: 0.1
MET-0050	Aluminum-based 2A12 Powder	Cu: 3.8-4.9; Mn: 0.3-0.9; Mg: 1.2-1.8; Al: Bal; Si: 0.5; Fe: 0.5; Ni: 0.1; Zn: 0.3; Ti: 0.15; O: <0.05; Res Each: 0.05; Res Total: 0.1
MET-0051	Aluminum-based 2A14 Powder	Cu: 3.9-4.8; Mn: 0.4-1.0; Mg: 0.4-0.8; Si: 0.6-1.2; Al: Bal; Fe: 0.7; Ni: 0.1; Zn: 0.3; Ti: 0.15; O: <0.05; Res Each: 0.05; Res Total: 0.1