



AM Metal Powder Portfolio

Additive Manufacturing (AM) of industrial components primarily involves the use of metal powder with high purity and very narrow particle size distribution. A growing number of metals are being optimized for use in industrial AM applications.

We understand the properties of materials at the smallest scales; we have over 80 years of experience in developing and manufacturing materials for critical industrial applications.

What we offer

- Broad, metal powder portfolio specifically developed and tested for industrial applications
- Spherical metal powders with high purity, optimized for high packing density and excellent flow properties
- Tailored particle size distributions for AM applications
- Customized and fast alloy development and qualification
- Powders expertly engineered for high packing densities, flow, reliability and repeatability

Process Specific Materials

- Laser Powder Bed Fusion (PBF-LB)
- Electron Beam Powder Bed Fusion (PBF-EB)
- Directed Energy Deposition (DED)

Our advantages

- R&D centers for testing and process parameter optimization on a variety of metal AM machines
- Chemical and physical analysis
- Global sales and logistics network
- NADCAP certified production facilities
- Consignment stocking options available
- 48 hour shipment of regionally stocked powders
- Customizable and reusable packaging and proprietary labelling
- Material traceability
- Long Term Supply Agreements

	Product	Nominal Chemistry	Nominal Particle Size
Ni-based	MetcoAdd™ 718C / 718E / 718F / 718G	Ni 18Cr 18Fe 5(Nb+Ta) 3Mo 1Ti 0.6Al	-45 +15 / -63 +20 / -106 + 45 / -90 +45
	MetcoAdd™ 738A	Ni 17Cr 7(Al+Ti) 9Co 0.1C 2Mo 1.5Ta 0.06Zr	-45 +15
	MetcoAdd™ 625A / 625E	Ni 21Cr 9Mo 4Fe 4(Nb+Ta) 0.4Al 0.4Ti	-45 +15 / -63 +20
	MetcoAdd™ HX-D	Ni 21Cr 18Fe 9Mo	-45 +15
	MetcoAdd™ H230-A	Ni 22Cr 2Mo 14W 0.35Al 0.03La	-45 +15
Co-based	MetcoAdd™ 75A		-45 +10
	MetcoAdd™ 76A	Co 28Cr 6Mo	-45 +15
	MetcoAdd™ 78A*		-45 +15
	MetcoAdd™ H188-A	Co 22Ni 22Cr 14.5W	-45 +15
	MetcoAdd™ MM509-A	Co 10Ni 24Cr 7W	-45 +15
Fe-based	MetcoAdd™ 316L-A / 316L-D	Fe 18Cr 12Ni 2Mo 0.02C	-45 +15 / -106 +45
	MetcoAdd™ 17-4PH-A / 17-4PH-D	Fe 17Cr 4.5Ni 4Cu 0.3(Nb+Ta) 0.07C	-45 +15 / -106 +45
	MetcoAdd™ 15-5PH-A / 15-5PH-B	Fe 15Cr 4.5Ni 3.5Cu 0.3Nb 0.07C	-45 +15 / -90 +45
	MetcoAdd™ C300-A	Fe 18Ni 9Co 5Mo	-45 +15
	MetcoAdd™ H11-A	Fe 5Cr 1Mo 1Si 0.5V 0.4C	-45 +15
	MetcoAdd™ H13-A/ H13-B	Fe 5Cr 1Mo 1Si 1V 0.4C	-45 +15/ -90 +45
Ti-based	MetcoAdd™ Ti-64 G23-A/ G23-E/ G5-B	Ti-6Al-4V	-45 +15 / -106 +42 / -63 +20

* Reduced carbon content- appropriate for the manufacture of medical or dental implants using PBF-LB.

Unable to find the answer to your question? We have the manufacturing flexibility and experience to develop a custom solution that fits your requirements. Contact our AM experts at am@oerlikon.com