COMPATIBILITY OF

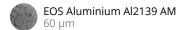
* for EOS M 290 1kW

METAL MATERIALS AND SYSTEMS

Product name







EOS Aluminium Al5X1

EOS CaseHardeningSteel 20MnCr5 40 | 80 µm

EOS CobaltChrome MP1 20 | 40 µm

EOS Copper Cu 20 µm

EOS Copper CuCP

EOS CopperAlloy CuCrZr 80 um³

EOS CopperAlloy CuNi30

EOS MaragingSteel MS1 20 | 40 | 50 µm

EOS NickelAlloy HX 20 | 40 μm

> EOS NickelAlloy HAYNES® 282® 40 | 80 μm

EOS NickelAlloy IN625 20 | 40 | 80 µm

EOS NickelAlloy IN718 20 | 40 | 80 µm EOS NickelAlloy IN939

EOS StainlessSteel 17-4PH

20 | 40 | 80 µm EOS StainlessSteel 254 40 | 60 um

EOS StainlessSteel 316L 20 | 40 | 80 µm

EOS StainlessSteel 316L VPro 60 µm

EOS StainlessSteel CX 30 | 40 | 80 µm

EOS StainlessSteel PH1 20 | 40 | 80 µm

EOS StainlessSteel SuperDuplex 40 | 80 μm

EOS Titanium Ti64 30 | 60 µm

EOS Titanium Ti64ELI

EOS Titanium Ti64 Grade 23 40 | 80 μm

EOS Titanium Ti64 Grade 5 40 | 80 μm

EOS Titanium TiCP Grade 2 30 um

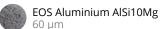
EOS ToolSteel 1.2709 40 um

EOS ToolSteel CM55 40 | 80 µm





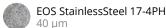




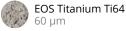


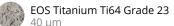


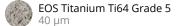
















EOS MaragingSteel MS1 50 μm

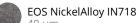
EOS Aluminium AlF357

EOS Aluminium AlSi10Mg









EOS NickelAlloy HX

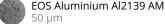
EOS NickelAlloy IN718

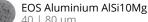
EOS StainlessSteel 316L 40 | 80 μm

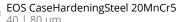














40 µm EOS StainlessSteel 17-4PH

40 | 80 μm



EOS StainlessSteel CX

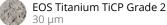


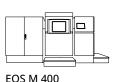


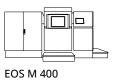










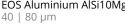


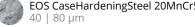


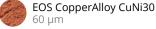


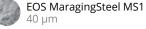




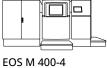
















40 | 80 μm









EOS METAL MATERIALS

PORTFOLIO OVERVIEW

Product class	Product name	Material type*	Typical applications
Steels	EOS MaragingSteel MS1	AMS6514, 18Ni300	Series injection molding tools, mechanical engineering parts
	EOS ToolSteel 1.2709	EN 1.2709	Series injection molding tools, mechanical engineering parts
	EOS ToolSteel CM55	Cobalt-free, ultra high- strength steel	Cold working tools, hot working tools, mechanical engineering parts, drive train components
	EOS CaseHardeningSteel 20MnCr5	1.7147	Automotive and general engineering applications, gears, spare parts
	EOS StainlessSteel PH1	1.4540, UNS S15500	Functional prototypes and series production parts, mechanical engineering parts
	EOS StainlessSteel 254	EN 1.4547	Chlorinated seawater handling equipment, pulp and paper manufacturing devices, chemical handling equipment
	EOS StainlessSteel 316L	1.4441, UNS S31673, ASTM F138	Engineering parts for corrosive environments, can be used for medical parts, e.g. endoscopy and orthopedics
	EOS StainlessSteel 316L VPro	1.4404, UNS S31603	Press-and-sinter applications which require high productivity
	EOS StainlessSteel CX	Precipitation hardening tool steel	Series injection molding tools for corrosive plastic and rubber, mechanical engineering parts
	EOS StainlessSteel 17-4PH	1.4542, UNS 17400, ASTM A564M	Acid and corrosion resistant englineering parts, medical instruments (surgical tools, orthopedic instrumentation)
	EOS StainlessSteel SuperDuplex	Austenitic-ferritic duplex stainless steel	Oil and gas industry, pulp and paper manufacturing devices, mining and off-shore equipment
Nickel alloys	EOS NickelAlloy HAYNES® 282®	AMS5951 Rev. A Section 3.1, UNS N07208	Components in the aviation, aerospace, oil and gas industries
	EOS NickelAlloy HX	UNS N06002, AMS 5390	High temperature applications requiring excellent oxidation resistance up to 1 200 °C
	EOS NickelAlloy IN718	UNS N07718, AMS 5662, AMS 5664, 2.4668, NiCr19Fe19NbMo3	Load-bearing components for high temperature applications up to 700 °C, good potential for cryogenic applications
	EOS NickelAlloy IN625	UNS N06625, AMS 5666, AMS 5599, 2.4856, NiCr22Mo9Nb	Components for service in corrosive environments, good potential for cryogenic applications
	EOS NickelAlloy IN939	Inconel™ 939	Engineering parts requiring excellent mechanical properties (fatigue, creep) and corrosion and oxidation resistance up to 850 °C
Cobalt chrome	EOS CobaltChrome MP1	UNS R31537, ISO 5832-4, ASTM F75, ISO 5832-12, ASTM F1537	Medical implants with high wear and corrosion resistance, high temperature components in aerospace

 $[\]mbox{\ensuremath{\star}}$ Material in accordance with respective standard





EOS METAL MATERIALS

PORTFOLIO OVERVIEW

Product class	Product name	Material type*	Typical applications
Copper	EOS Copper Cu	High purity copper	Heat exchangers, electronics, variety of industry applications requiring good conductivity
	EOS Copper CuCP	Commercially pure copper	Electrical motors, inductors, variety of industry applications requiring excellent conductivity
	EOS CopperAlloy CuNi30	UNS 96400	Pumps and impellers, marine applications
	EOS CopperAlloy CuCrZr	C18150, CW106C	Rocket engine parts, heat exchangers, induction coils
Titanium	EOS Titanium Ti64 EOS Titanium Ti64 Grade 5	Ti6Al4V, ISO5832-3, ASTM F1472, ASTM F2924, ASTM F3302	Series production parts in aerospace, medical and automotive
	EOS Titanium Ti64ELI EOS Titanium Ti64 Grade 23	Ti6Al4V ELI, ASTM F136, ASTM F3001, ASTM F3302	Series production parts in medical (spinal cages, tibal trays, patella, etc.)
	EOS Titanium TiCP	ASTM F67, ISO 5832-2	Series production parts in medical (e.g. trauma plates, CMF implants, etc.)
Aluminum	EOS Aluminium AI5X1	Aluminum-magnesium alloy designed for AM	Applications in aerospace and automotive industries. Lightweight parts in many industries, including ones requiring high visual quality and anodization, for example consumer electronics.
	EOS Aluminium AlSi10Mg	AlSi10Mg	General engineering components and parts subject to high loads in aerospace and automotive industries, substitution of cast AlSi10Mg parts
	EOS Aluminium AIF357	AlSi7Mg0,6, SAE AMS 4289	Structural components in aerospace and automotive industries requiring balanced mechanical properties
	EOS Aluminium Al2139 AM	Aluminum Association Teal Sheet for Al2139 modified for DMLS	Production parts in aerospace & space, racing, transportation & mobility, lightweight designs
Refractory metals	EOS Tungsten W1	Pure tungsten	Thin walled parts for use in guidance structures in x-ray imaging such as anti-scatter grids

 $[\]mbox{\ensuremath{\star}}$ Material in accordance with respective standard

Detailed information:

https://www.eos.info/en-us/metal-solutions/metal-materials



