

Product:

- Modelstar S Powder 16
- Modelstar S Powder 65

Special features and main characteristics:

- Modelstar S Powder is a CoCr powder which has been specially optimised for processing on laser powder bed fusion
- Type 5 material according to DIN EN ISO 22674

Use and intended purpose:

- This material is specifically tested according to the requirements for a type 5 material as per DIN EN ISO 22674 (dental applications where parts of the appliance require a combination of high stiffness and yield strength, e.g. thin removable partial dentures, parts with thin cross-sections, clasps).

Technical features:

Composition (mass %)	Co	Cr	Mo	C,Fe,Mn,Si
	Rest (61.5)	28.5	6.0	< 1.0
Mechanical Properties ¹	Tensile strength (R _m) 1220 MPa	Yield strength (R _{p0.2}) 730 MPa	Elongation at break (A5) 20 %	E-modulus 200 GPa
	Solidus liquidus interval 1310-1410°C	WAK (25 - 500 °C) 14.5 x 10 ⁻⁶ K ⁻¹	Density 8.3 g/cm ³	Hardness 385 HV10

¹ Mechanical properties of the manufactured test components as guide values, depending on the specific machine settings and heat treatment applied.

Laser powder bed fusion:

- *Please follow the recommendations of the machine manufacturer.*

Delivery form / design:

Product	Material	Form	Size	Content	REF
Modelstar S Powder 16	CoCrMo	Powder	< 16 µm	5 kg	132716
Modelstar S Powder 65	CoCrMo	Powder	< 65 µm	5 kg	132765

Safety notice:

When handling, the safety data sheet must be observed.

Applied standards:

DIN EN ISO 22674

Remark:

The information corresponds to our knowledge and experience at the time of publication. They alone do not form a sufficient basis for a component design. Certain properties of the product or a component or the suitability of the product or components for a specific application are neither agreed nor guaranteed herewith. The producer or the purchaser of a component is responsible for checking the properties and suitability for a specific application. This also applies with regard to the protection of possible property rights as well as existing laws and regulations. As part of the continuous development and improvement processes, the information is subject to change without notice.

Manufacturer:

S & S SCHEFTNER GMBH
 Dekan-Laist-Str. 52
 D-55129 Mainz / Germany
 Phone: + 49 (0) 6131 - 94 71 40
 Fax: + 49 (0) 6131 - 94 71 440
 Internet: www.scheftner.dental

CE 0482

Rev.01/2022-10