

Product specification

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Inorganic specialities

PRD-No.: 30396263



® = Registered trademark of
BASF Aktiengesellschaft

Catamold® 420 W

1. General

This product is produced and marketed by BASF AG, Ludwigshafen, Germany. The unit producing and marketing this product is certified according to ISO 9001:2000.

Product Description:

Ready-to-mold granules for the production of type 420 martensitic stainless steel sintered components using BASF technology.

Equivalent Standards:

Nb-modified SUS 420-J2, AISI 420F, UNS S42020, UNS J91154, DIN 1.4028, X30 Cr13

Typical Composition after Sintering:

C (%)	Cr (%)	Mo (%)	Nb (%)	Ni (%)	Si (%)	Mn (%)	P (%)	S (%)	Fe
0.35 – 0.50	12 – 14	≤ 0.65	1.0 – 2.0	≤ 0.60	≤ 1.0	≤ 1.0	≤ 0.040	≤ 0.030	Balance

2. Specifications

Parameter	Unit	Typical value	Specification	Test method
MFI	g/10min	500	200 - 800	ISO 1133 (190 °C, 21,6kg)
Density	g/cm ³	7.65	≥ 7.60	ISO 3369
Oversizing factor		1.2160	1.2116 – 1.2204	RC/PQ-SN-1335
C	%	0.40	0.35 – 0.50	Leco combustion

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.