Data Sheet

D/CA 010 e April 2006

Page 1 of 2

Supersedes edition dated October 2000



® = Registered trademark of BASF Aktiengesellschaft

Catamold® 100Cr6

Product Description

Ready-to-mold granules for the production of sintered components in a low-alloy bearing steel type 100Cr6 using the BASF system.

Standards

DIN 1.3505, 100Cr6 AISI E52100; UNS G52986

Typical composition after Sintering

C %	Cr %	Fe %
0.80-1.05	1.35-1.65	Balance

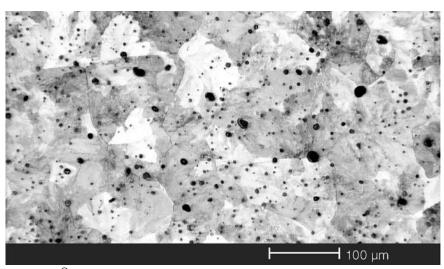
Processing

Processing on standard injection molding machines for thermoplastic polymers. Catalytic debinding according to the BASF system. Sintering in dry nitrogen.

Characteristic properties

	sintered in ${\rm N_2}$	heat-treated
Density	≥7.5 g/cm ³	
Yield Strength R _{p0,2}	≥500 MPa	
Ultimate Tensile Strength R _m	≥900 MPa	
Elongation A ₁₀	≥5%	
Hardness	230-290 HV10	≥700 HV10 (60 HRC)

Typical Microstructure



Catamold® 100Cr6, sintered in N_2 at 1250 °C

D/CA 010 e April 2006 Page 2 of 2 Catamold® 100Cr6

Applications

Components with high hardness and wear resistance for tools, automotive parts, mechanical engineering etc.

Note

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April 2006