

## Data Sheet

D/CA 017 e  
March 2008

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Supersedes edition dated April 2006



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# Catamold® P.A.N.A.C.E.A.

## Product Description

Ready-to-mold granules for the production of sintered components in a **Ni-free austenitic stainless steel using BASF system**.

## Standards

X15 CrMnMoN 17 11 3

## Typical composition after Sintering

C %	N %	Cr %	Ni %	Mo %	Mn %	Si %	Fe
≤0.2	0.75–0.90	16.5–17.5	≤0.1	3.0–3.5	10–12	≤1	Balance

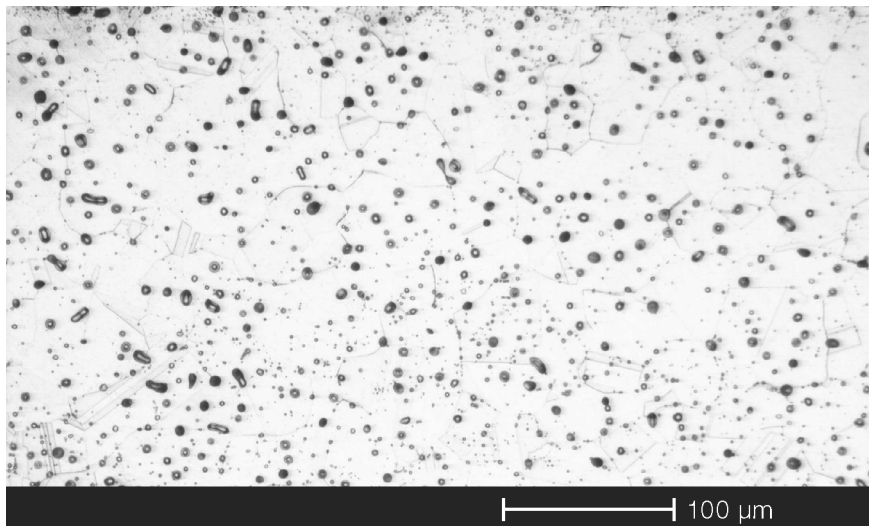
## Processing

Molding on standard injection molding machines used for the thermoplastic polymers. Catalytic debinding according to BASF system. Sintering in a nitrogen/hydrogen atmosphere with subsequent heat treatment.

## Characteristic Properties

Density	≥ 7,5 g/cm <sup>3</sup>
Yield Strength R <sub>p0,2</sub>	≥ 690 MPa
Tensile Strength R <sub>m</sub>	≥ 1090 MPa
Elongation A <sub>10</sub>	≥ 35 %
Hardness	270–300 HV10
Corrosion resistance	Crevice corrosion resistance and resistance against pitting better than for 316L
Nickel-release-rate	much below the limits established in the EU-guideline 94/27/EC

## Typical Microstructure



Catamold P.A.N.A.C.E.A., sintered in N<sub>2</sub>/H<sub>2</sub> and soft annealed

**Applications**

Non-magnetic parts with excellent corrosion resistance, medium hardness and good ductility used for watches, jewellery and in the medical- and food-industry.

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**Note**

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March 2008