

SV30 Material Datasheet

Mat. No.: 1.4108—SAE Nr. AMS 5898—X30CrMoN15-1

SV30 is a pressure-nitrided, martensitic cold work steel which offers superior corrosion-resistance in high performance applications and extreme operating conditions, for example those employing aggressive media such as cleaning chemicals and salt spray.

The material combines hardness levels up to 60 HRC with excellent durability under static and dynamic demands. It's fine, homogeneous structure allows for excellent machinability, e.g. when grinding and honing, and high thermal stability following heat treatment.

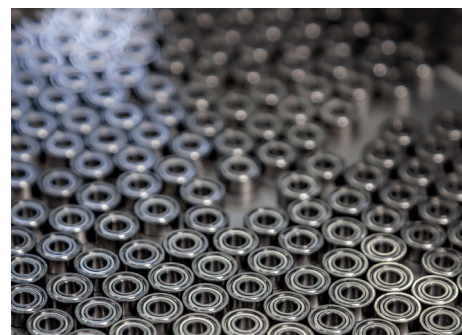
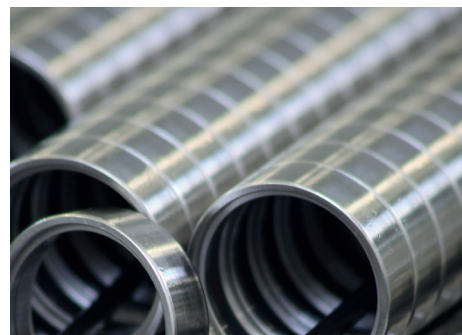
A combination of high corrosion and wear resistance, when compared to conventional cold work steels, make it suitable for a wide variety of demanding applications. In particular, SV30's range of characteristics make it the preferred material in the following applications.

Typical Applications:

- Medical Engineering
- Dental Industry
- Vacuum Technology
- Aerospace Industry
- Measurement & Control Technology
- Food Industry
- Chemical Industry
- Machine Tools

Advantages to use:

- Significantly longer service life
- Highest corrosion resistance
- Improved mechanical properties due to a very fine structure
- Quieter running characteristics
- High temperature resistance
- High chemical resistance



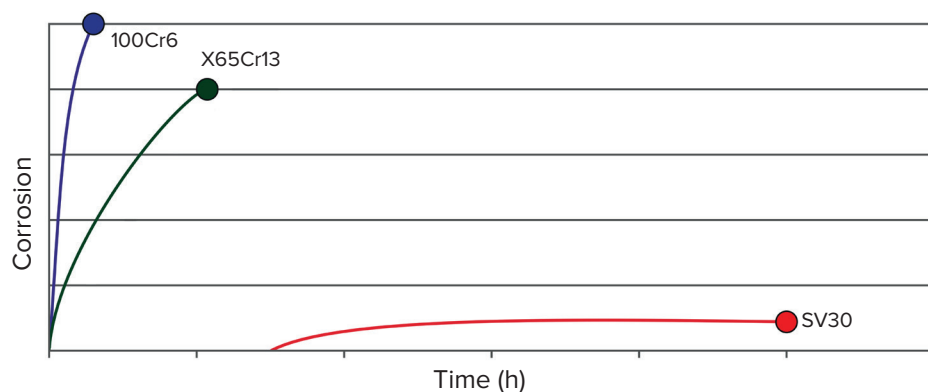
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Technical Data

Corrosion Resistance



100Cr6
after 50h



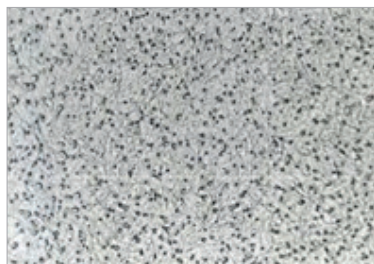
X65Cr13
after 200h



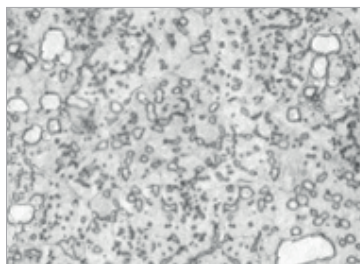
SV30
after 1000h

Chemical Composition

Chemical Element	Min.	Max.
Carbon (C)	0.25	0.35
Silicon (Si)	-	1.00
Manganese (Mn)	-	1.0
Chromium (Cr)	14.0	16.0
Phosphorus (P)	-	0.030
Sulfur (S)	-	0.025
Nickel (Ni)	-	0.50
Molybdenum (Mo)	0.85	1.10
Nitrogen (N)	0.30	0.50
Iron (Fe)	Rest	Rest



1.4108 (SV30)
Magnification X1000



1.4037 (X65Cr13)
Magnification X1000

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