# **Formadur**

# PH X Superclean

## (X5CrNiCuNb15-5)

## C 0.05 Cr 15.00 Ni 4.50 Cu 3.50 Nb +

#### Steel properties

Formadur PH X Superclean is a corrosion-resistant, precipitation hardened steel with high strength. It shows excellent polishability due to the applied remelting process. Compared to Formadur 2316, hardness in as-delivered condition and corrosion resistance are improved.

#### **Physical properties**

Coefficient of t	hermal ex	pansion							
at °C	20 - 100	20 - 150	20 - 200	20 - 250	20 - 300	20 - 350	20 - 400	20 - 450	20 - 500
10 <sup>-6</sup> m/(m ⋅ K)	10.4	10.6	10.9	11.1	11.4	11.5	11.7	11.9	12.0
Precipitation hardened									
Thermal condu	ctivity								
at °C	23	150	300	350	400	500			
W/(m • K)	16.8	20.1	22.1	22.8	23.3	24.1			
Precipitation har	dened								

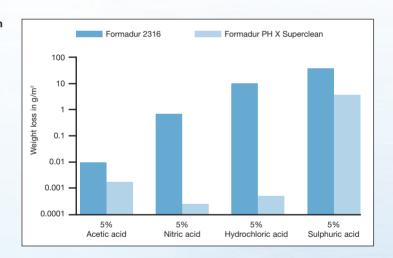
## **Applications**

Formadur PH X Superclean is recommended for tools used in the processing of corrosive plastics. Further applications for components in aircraft and chemical industries.

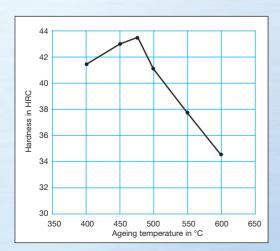
#### **Heat treatment**

Formadur PH X Superclean usually is supplied in precipitation-hardened condition with a hardness of 40 HRC.

#### Weight loss diagram



### Ageing diagram



Reference numbers in brackets are not standardized in EN ISO4957.