COMPARABLE STANDARD

UNI	EURONORM	W Nr	DIN	AFNOR	AISI/SAE	BS
–	–	1.4864	X12NiCrSi36-16	Z20NCS36-18	330	–

COMPOSITION

C	Si	Mn	Cr	Ni
0,12	1,8	0,9	19,0	35,0

CHARACTERISTICS OF THE PRODUCT

An austenitic, non-hardenable heat and corrosion resistant Cr-Ni-Si alloy with excellent high temperature properties up to 1000°C. It has good thermal shock resistance and oxidation resistance. Excellent polishability and low tendency to sticking.

PRODUCT APPLICATIONS

For glass press dies working with larger masses of glass. Highest requirements on glass surface quality. For high productivity lines and long runs. For heat resistant furnace parts and high temperature chemical process equipment. Hot work tooling.

DELIVERY CONDITION

Solution annealed for HB ≤ 210.

HEAT TREATMENT

SFV 40 does not harden by heat treatment. Solution annealing and quenching in water or air.

Solution annealing: preheating 200 ÷ 300°C, Solution annealing 1050 ÷ 1100°C Quench in water or air.

Mechanical characteristics: R 550 ÷ 750 N/mm2 (150-210 HB).

MECHANICAL CHARACTERISTICS AT ELEVATED TEMPERATURES

(minumum load that produces 1% elongation after 1000hours – 1%creep limit)

TEMP °C	600	700	800	900	100
R (N/mm2)	90	40	20	9	4

Form of products		Ø 10-100 mm
Heat treated conditions		Solution annealed
Testing direction		Longitudinal
0,2% yield strenght	Rp 0,2 N/mm²	> 300
Tensile Strength	Rm N/mm²	550-750
Elongation	A (4xD) %	> 40
Reduction of area	2%	> 40
Hardness	HB	150-200
Impact (ISO-Vnotch)	K Joule	> 105