

1.4742

X10CrAlSi18 / H18JS

HEAT RESISTANT FERRITIC STEEL

APPLICATION

Furnace fittings, transport elements, heat resistant elements of furnace.

CHEMICAL COMPOSITION

Chemical composition (in weight %)

Element	C	Si	Mn	P	S	Cr	Al
min	max.	0.70	max.	max.	max.	17.00	0.70
max.	0.12	1.40	1.00	0.04	0.015	19.00	1.20

TREATMENT

Annealing	800 - 860 °C / water, air
Heat treatment condition	annealed
Microstructure	Ferrite

WELDABILITY

Heating up and electro welding (conditional). Suitable welding filler materials: 1.4820; 1.4773; 1.4829. Preheating up to 200-300 °C is recommended.

TEMPERING DIAGRAM

