

FERRITIC STAINLESS STEEL ACX 535			
EN DESIGNATION	ASTM DESIGNATION		
1.4113	434		
X6CrMo17-1	S43400		

DESCRIPTION ACX 535 is a variation of ACX 500 with molybdenum content, which increases its pitting and atmospheric corrosion resistance.

CHEMICAL COMPOSITION

С	Si	Mn	Р	S	Cr	Мо
≤0.080	≤1.00	≤1.00	≤0.040	≤0.015	16.00-18.00	0.90-1.25

APPLICATIONS - Façades

- Exhaust systems
- Household electrical appliances

MECHANICAL **PROPERTIES AFTER COLD ROLLING AND FINAL ANNEALING**

Rp _{0.2}	> 280 N/mm ²		
Rm	450 - 630 N/mm ²		
Elongation	> 22%		
Hardness	< 185 HB		

PROPERTIES

PHYSICAL At 20°C it has a density of 7.7 kg/dm³ and a specific heat of 460 J/kg·K

	20°C	100°C	200°C	300°C	400°C	500°C
Modulus of elasticity (GPa)	220	215	210	205	195	-
Mean coefficient of linear expansion between 20°C (10 ⁻⁶ x K ⁻¹) and		10	10.5	10.5	10.5	11
Thermal conductivity (W/m·K)	25	26.5	28	30	31.5	32.5
Electrical resistivity (Ω·mm²/m)	0.70	0.75	0.80	0.90	1.00	1.10

WELDING The recommended consumable electrodes are:

Shielded electrodes	Wires and rods	Hollow electrodes
	G 19 12 3 L (GMAW)	
E 19 12 L	W 19 12 3 L (GTAW)	E 19 12 3 Nb
	P 19 12 3 L (PAW)	
ER 316L	S 19 12 3 L (SAW)	ER 316L
	ER 316L	

CORROSION

PITTING ACX 535 exhibits better pitting corrosion resistance than ACX 500, due to its molybdenum addition.

CRACKING

STRESS CORROSION As ferritic stainless steel, ACX 535 has good stress corrosion cracking resistance.



ACX 535 / FERRITIC STAINLESS STEEL

CORROSION

ATMOSPHERIC ACX 535 has good resistance in rural environments.

TEMPERATURE OXIDATION RESISTANCE

HIGH- This type of ferritic stainless steel shows good oxidation resistance at high temperature. Its maximum scale-breaking temperature is 815°C in continuous working.

SURFACE CLEANING

Wash the surface with neutral soap and water applied with a cloth or a brush without scratching the stainless steel. Then, always rinse the stainless steel with water to remove completely the cleaning agent. Finally, it is recommended to dry the surface to preserve a good superficial condition. In severe environments, a frequent cleaning is strongly recommended.

SPECIFICATIONS It can be delivered according to EN 10088-2 and ASTM A-240 standard requirements.