



AluNox – aluminum sheet with a decorative stainless steel look

ThyssenKrupp
Materials International



ThyssenKrupp

AluNox – the perfect combination of high-tech looks and low weight!



If you want to develop and manufacture products with decorative surfaces and new functions, then AluNox is the right material for you. Its features provide measurable advantages over other materials:

Chemical composition									
Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti
Max.	0.30	0.45	0.05	0.15	0.70–1.10	0.10	0.05	0.20	0.05

Physical properties	
Density	2.69 g/cm ³
Modulus of elasticity	69 Gpa
Thermal expansion coefficient	23.8 x 10 ⁻⁶ K ⁻¹
Melting range	630–650 °C
Thermal conductivity*	185–200 W/mK
Electrical conductivity*	29–31 M/Ωmm ²

Mechanical properties	
Yield strength R _{p0,2}	≥35 MPa
Tensile strength R _m	≥145 ≤180 MPa
Elongation _{A50/A5}	(%)
Thickness 0.5–1.5 mm	≥4 ≤8
Thickness 1.6–3.0 mm	≥5 ≥8

(* for information: in non-anodized condition only)

- Chemical composition to EN 573-3
- Technical delivery conditions to EN 485-1
- Tolerances to EN 485-4
- Anodizing to EN 12373



AluNox is a specially rolled (butler finish) and anodized AlMg1 material in temper H14, with a specific finish corresponding in every detail to a decoratively ground (180 grit) stainless steel surface. AluNox sheet is supplied with a one-side protective film.

Advantages of AluNox over stainless steel:

- > Consistent decorative finish
- > Considerable weight saving, only 1/2 the weight of stainless steel
- > No fingerprints on the surface
- > High resistance to corrosion and abrasion through anodizing
- > Easy cleaning with normal household agents; sterilizable
- > Material is easy to process
- > Suitable for laser processing
- > Readily recyclable

Typical applications include:

- > Kitchen and laboratory interior fittings
- > Ceiling and wall lining for shops and trade show booths, escalators and elevators
- > Front panels for ATMs, safe deposit boxes, mailboxes and counters
- > Door and window accessories
- > Designer furniture and trim
- > Household and kitchen appliances
- > Light and lamp surrounds
- > Signs and display racks

AluNox from stock · Sheets 1250 x 2500 mm, one-side protective film					
Thickness mm	0.5	0.8	1.0	1.5	2.0
Anodic coating thickness approx. µm	5	5	10	10	10
Gewicht/Tafel kg	4.6	6.8	8.5	12.8	17.0

Intermediate thicknesses, custom sizes and specific coating thicknesses on request. Also available at short notice as slit strip in widths from 5–1250 mm!

A dream for architects, designers and metal fabricators! Utilize the advantages of light aluminum sheet with a decorative stainless steel look. The possible uses of AluNox are almost unlimited!

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