



REX-734

Implant alloy with high requirements as to corrosion resistance and fatigue resistance. Austenitic stainless steel with excellent corrosion resistance combined with good mechanical properties.

Gehe zu



Main fields of application of alloy REX-734

Production of surgical implants - replacement for hip, knee, shoulder, marrow-nails as well for devices for osteosynthesis.

Chemical composition of alloy REX-734

C	≤ 0,08	Mo	2 - 3
Si	≤ 0,75	Ni	9 - 11
Mn	2 - 4,25	Nb	0,25 - 0,8
P	≤ 0,025	N	0,25 - 0,5
S	≤ 0,010	Cu	≤ 0,25
Cr	19.5	Fe	rest

Mechanical properties of REX-734

annealed	specification values (bars)
tensile strength Rm	≥ 740 MPa
elongation A	≥ 35%
precipitation hardened	specification values (bars)
tensile strength Rm	≥ 1060 MPa
elongation A	≥ 12%

Delivery program

mm kg/m on stock

20,0 2.5 ●

35,0 7.7 ●

45,0 12.3 ●

Further bars and profiles in different executions available upon request.

Services provided by our internal service center for REX-734

We can provide various services directly in our service center. You save time, cost (internal or external) and don't need to find solutions for scrap management or handling of heavy plates and long bars.

Services suitable for round bars

sawing of bars

Bar marking

Turning machine

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

Contact us



Marcel Zuber

Business Unit Manager Services, Aerospace, Medical & Watch

+41 (0)44 823 88 39
+41 (0)79 765 80 67

Services



Waterjet cutting



Laser cutting



Plasma cutting



Shear cutting

Weight Calculator