

# ACEROS INDUSTRIALES - ACEROS PARA TRATAMIENTO TÉRMICO Y ACEROS PARA TEMPLE POR PRECIPITACIÓN

## Formatos disponibles

Chapas

## Descripción

Highly stressed components for the aircraft and rocket industries. Constructional and tool steel for hot and cold working tools used for long-time service at temperatures up to approx. 450°C. Machine tools, Pressure vessels, Gearwheels (nitrided), Screws, Precision parts, Tools for hydrostatic presses, Cold extrusion tools, Cold heading and embossing tools, Plastic moulds, Die casting tools for aluminium and zinc alloys, Hot pressing tools.

## Propiedades

Ultra-high-strength maraging steel. In contrast to heat treatable steels its outstanding tensile properties are not due to a hardened structure with relatively high carbon content, but to precipitation of intermetallic phases from a ductile nickel bearing matrix containing almost no carbon.

This results in the following advantages:

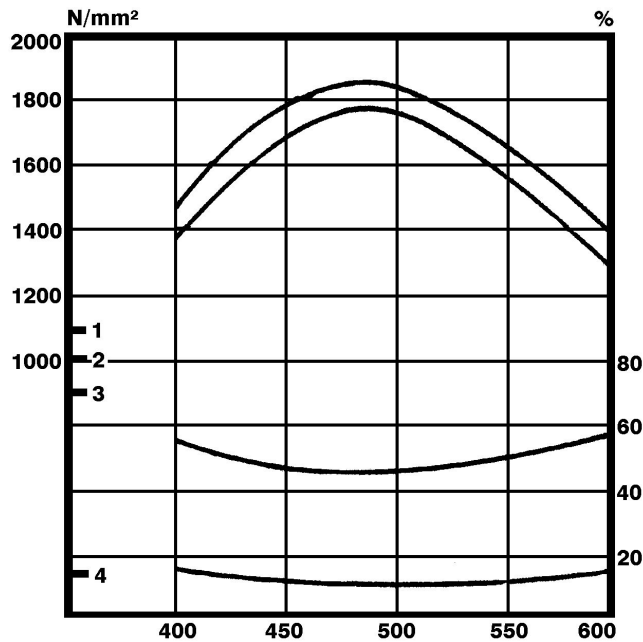
- High tensile strength and excellent yield point ratio
- Satisfactory toughness (reduction of area, elongation, impact strength, fracture toughness) even at low temperatures
- Superior notched tensile strength and heat
- Checking resistance
- Practically no size change in heat treatment
- No decarburization and no cracking
- Full hardening even in sizes above average
- Convenient machinability in the solution annealed condition
- Machining is also possible in the precipitation-hardened condition)
- Good cold forming properties owing to reduced susceptibility to work hardening
- Eminent weldability, simple heat treatment at low temperatures

## Aplicaciones

> Elementos estructurales (Aerosp.)

## Datos técnicos

Designación	Estándares
1.6359 SEL	6520 AMS
Maraging 250	Market grade



Auslagerungstemperatur (Haltedauer 3 Stunden) in °C  
Ageing temperature (holding time 3 hours) in °C

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