



## Input section

### Mechanical Properties

Enter your mechanical requirements here

Strength  Hardness

Select your input in hardness units or strength

MPa  ksi

Change the unit from ksi into MPa

Min  Max

Limit the input e.g. maximum 450 MPa tensile strength

### Physical Properties

Enter your physical requirements here

MS/m  IACS %

Change the unit from IACS % into MS/m

### Stress Relaxation

Enter your stress relaxation requirements here

### Bendability

Enter your bending requirements here

Angle  90°  180°

Change the bending angle from 90° into 180°

mm  inch

Change the unit from mm into inch

Bending direction  Good Way  Bad Way

Change the bending direction of the strip  
Transverse to rolling direction = good way  
Parallel to rolling direction = bad way

### Application

Select the typical application fields

### Fabrication Properties

Enter your requirements for further processing

### Search

Search directly for the alloy designations, EN/UNS numbers and the chemical composition

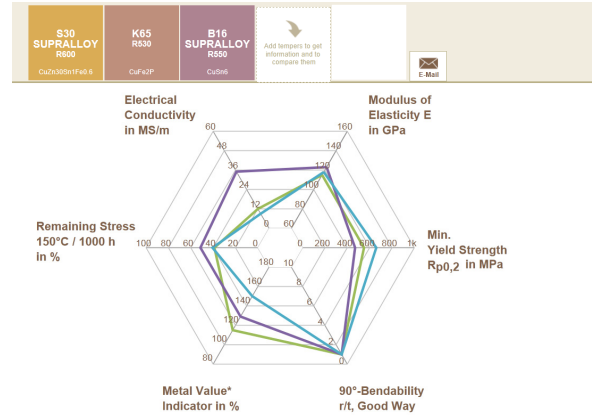
## Comparison section



### General Overview

Get a quick overview of your alloys

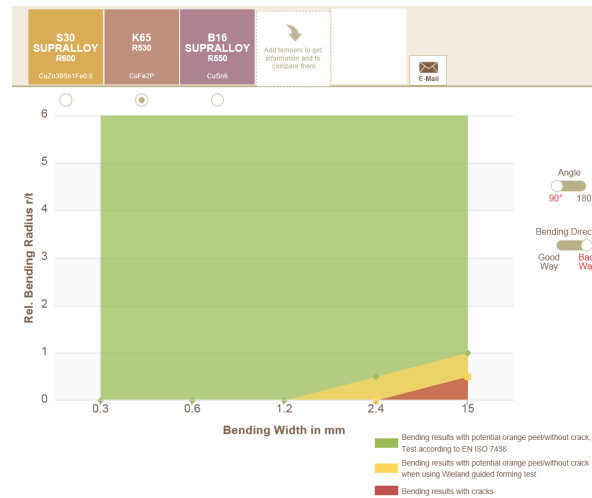
The colored lines in the diagram show the different alloys and their property profile



### Bendability

Select an alloy for bendability information

Choose your bending requirements. The bending diagram shows the bendability of the selected alloy



### Datasheet

Get an overview of the different alloys

Compare your selections side by side

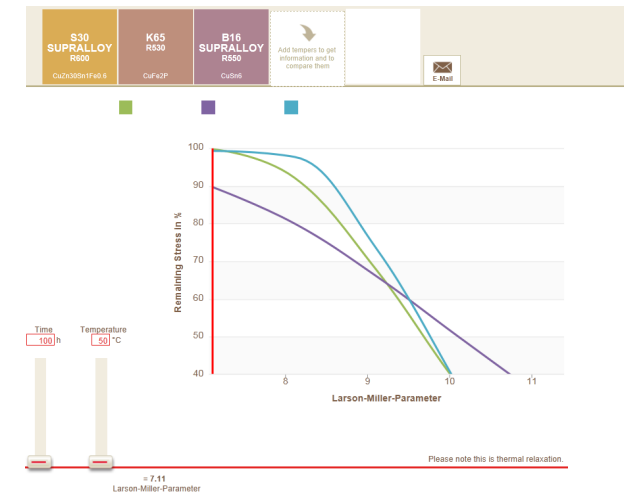
	S30 SUPRALLOY R600	K65 R630	B16 SUPRALLOY R650
<b>Designation</b>			
Name	S30 SUPRALLOY R600	K65 R630	B16 SUPRALLOY R650
Temper			
EN	CuZn30Sn1Fe0.6	CuFe2P	CuSn6
Material Code			
No.			
ASTM	C44750	CW197C	CW452K
UNS No.		C21900	C5191
JIS			
JIS No.			
<b>Physical Properties</b>			
Electr. Conductivity	12	35	9
Thermal Conductivity	21	60	16
Density	8.53	8.91	8.80
Modulus of Elasticity	115	123	118
<b>Mechanical Properties</b>			
Tensile Strength Rm	600 - 680	530 - 570	550 - 650
Yield Strength Rp0.2	> 550	> 470	> 500
Spring Bending Limit	MPa		
Elongation A50	8	5	16
Hardness HV	> 180	150 - 170	170 - 230



### Stress Relaxation

Compare the stress relaxation after a defining time and temperature

Specify the time and temperature by moving the sliders



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