

## Technical datasheet

## Alloy L-605 | 2.4964

### Major specifications

UNS R30605	AMS 5759	DMD 0415-22
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### Available product forms

Round bars  
The current stock range can be found on [www.sd-metals.com](http://www.sd-metals.com). Further dimensions available upon request.  
Use our Service Centre to have the available sizes cut to your desired dimensions.

### Key features

Alloy L-605 is a cobalt-based Alloy with additions of chromium, tungsten and nickel for excellent high temperature strength and oxidation resistance as well as good sulfidation resistance. Alloy L-605 can be used in oxidizing high temperature environments at operating temperatures up to 1093°C. It also has good wear and abrasion resistance. This combination of properties makes Alloy L-605 ideal for use in aviation and aerospace applications as well as in land-based gas turbines.

### Applications

- gas turbine rings and blades
- combustor components
- ball bearings
- industrial furnace equipment

### Chemical properties

#### Composition - limits in %

Cr	W	Ni	Fe	Mn	Si	C	P	S	Co
19,0 - 21,0	14,0 - 16,0	9,0 - 11,0	max. 3,0	1,0-1,2	max. 0,40	0,05 - 0,15	max. 0,04	max. 0,03	Rest

### Physical and thermal properties

Density	9,27g/cm <sup>3</sup>
Melting temperature	1330 - 1410 °C
Thermal conductivity	9,4 W/m • °C
Expansion coefficient at 21-93°C	13 µm/m • °C

### Typical mechanical properties (room temperature)

Yield strength	min. 460 MPa
Tensile strength	min. 1000 MPa
Elongation	min. 50 %

All information is subject to change without notice.  
The properties correspond to the material in the heading. They may vary for other specifications.  
Please contact us for more details.