



L605

1. Brief introduction:

It is a cobalt-based superalloy with 20Cr and 15W solid solution strengthening. It has moderate durability and creep strength below 815 °C, excellent oxidation resistance below 1090 °C, and satisfactory processing properties such as forming and welding.

It is suitable for the manufacture of hot-end high-temperature parts such as aero-engine combustion chambers and guide vanes that require medium strength and excellent high-temperature oxidation resistance.

It can also be used on aerospace engines and space shuttles.

2. Main specifications:

China	UNS	USA	France
GH605	R30605	Haynes25/L605	KC20WN

3. Chemical composition under AMS5537 standard:

Grade	chemical composition,%									
	Co	Cr	W	Ni	Mn	Fe	C	Si	S	P
L605	Remainder	19.0-21.0	14.0-16.0	9.0-11.0	1.0-2.0	≤3.0	0.05-0.15	≤0.4	≤0.03	≤0.04

4. Main product types:

wire,rod,forging,bar,sheet/plate.



Shanghai Hite Special Alloy Co., Ltd.
<https://www.hitealloy.com>

5. Main produce standards:

Rod,Bar, Forging, Ring	Welding Wire	Welding electrode	Plate/Sheet/Strip
AMS5759	AMS5796	AMS 5797	AMS5537

6. L605 source URL:

<https://www.hitealloy.com/product/l605.html>

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