

15-7Mo

15-7Mo is a chromium-nickel-molybdenum-aluminum semi-austenitic precipitation hardening stainless steel used for applications requiring high strength and a moderate level of corrosion resistance. It can offer excellent mechanical properties at temperatures up to approx.480°C.

Chemical Composition, %

element	Cr	Ni	Fe	Mo	Al	C	Mn	Si	P	S
min.	14.00	6.50		2.00	0.75					
max.	16.00	7.75	bal.	3.00	1.50	0.090	1.00	1.00	0.040	0.030

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National Standards	Material designation	Chemical composition	Forgings	Rod and bar	Plate and sheet	Strip
ASTM ASME SAE	UNS S15700 AISI 632	A959 SA959	A705 SA705 A579 SA579 AMS5657	A564 SA564 AMS5657	A693 SA693 AMS5520	A693 SA693 AMS5520
GB/T	07Cr15Ni7Mo2Al 0Cr15Ni7Mo2Al S51570	GB/T 20878		GB/T 1220	GB/T 3280 GB/T 4237 GB/T 4238	GB/T 3280 GB/T 4237 GB/T 4238 GJB 3321

Density 7.81g/cm³

Corrosion resistance

- corrosion resistance comparable to stainless type 304 in most media

Applications

Typical applications are:

- paneling and springs
- diaphragms
- retaining rings
- welded and brazed honeycomb paneling
- aircraft components bulkheads