



654SMO

1. Brief introduction:

654SMO is high N alloyed austenitic grade with 7-8% Mo, which makes it the most corrosion resistant stainless steel in the world.

Due to the high contents of Cr, Ni, Mo and N, 654SMO can compete with Ni-based alloys and Titanium.

It's high performance austenitic stainless steels with good weldability and excellent formability.

It's used for pressurized and erosive systems handling chlorinated sea water at higher temperatures, plate heat exchangers and flue gas cleaning applications, etc.

2. Main specifications:

Outokumpu	UNS	EN No.
654SMO	S32654	1.4652

3. Chemical composition under ASTM A240 standard:

Chemical composition, %											
Grade	Ni	Cr	Mo	Mn	N	Cu	Si	C	P	S	Fe
UNS S32654	21.0-23.0	24.0-25.0	7.0-8.0	2.0-4.0	0.45-0.55	0.3-0.6	≤0.5	≤0.02	≤0.03	≤0.005	Bal.

4. Main product types:

wire, rod, bar, strip, sheet/plate, tube/pipe.



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

5. Main produce standards:

Wire, rod, Bar, forging	Sheet/plate,Strip
EN 10088-3	ASME SA240 ASTM A240 EN 10088-2

6. 654SMO Source URL:

<https://www.hitealloy.com/product/654smo-uns-s32654.html>