

# Astrup MDS

**254SMO**

## Material Description

Hot Rolled / Forged stainless bar steel  
Annealed and peeled

## Quality

254SMO/6Mo / EN 1.4547 / UNS S31254  
SS 2378 / F44

## Chemical composition

C %	Si %	Mn %	P %	S %	Ni %	Cr %	Mo %	Cu %	N %	PREn
0,02	0,7	1,0	0,03	0,01	17,5	19,5	6,0	0,5	0,18	
					18,5	20,5	6,5	1,0	0,22	≥ 42

## Mechanical properties

Yield strenght Rp 0,2% (N/mm <sup>2</sup> )	Tensile strenght Rm (N/mm <sup>2</sup> )	Elongation A5 %	Contraction Z %	Impact value Kv/J (20 °C)	Hardness HRC	Hardness HB
Min 300	Min 650	Min 35	Min 40	Min 100		
	Max 850					Max 220

## Technical requirements

EN 10088-3: 2005 1.4547  
X1CrNiMoCuN 20-18-7  
ASTM A276-10  
ASTM A479-11  
ASME SA479-10 SEC. II PT.A 2010 ED. ADD 2011a  
NORSOK M650, M630 MDS R17  
NACE MR0175 2009/ ISO 15156-3:2009  
Corrosion test acc. to ASTM G48 A (50C/24h)  
Intergranular corrosion test acc. to ASTM A262 Practice E

## Certificate

Acc to EN 10204/3.1

## Form of supply

Lengths from 3-7 meter, depending on diameter.  
Max weight per subject: 5000 kg

## Marking

Astrup purchase number.  
Each bar to be marked or hard stamped with charge number, quality and dimension.