

# Astrup MDS

**316L**

## Material Description

Hot rolled/ forged stainless bar steel  
Cold drawn/grinded stainless bar steel  
Annealed, pickled, straightened  
Peel turned and polished

## Quality

AISI 316L / EN. 1.4404  
UNS S31603

## Chemical composition

C %	Si %	Mn %	P %	S %	Ni %	Cr %	Mo %	Cu %	N %	PREn
		1,25			10,0	16,5	2,0			23,1
0,03	1,0	2,0	0,045	0,03	13,0	18,5	2,5		0,1	28,5

## 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 200	Min 500	Min 40	Min 50	Min 60		
	Max 700					Max 215

## Technical requirements

EN 10088-3:2005  
X2CrNiMo 17-13-2  
ASTM A182 (Chemical composition and mechanical properties only)  
ASTM A276  
ASTM A479  
ASME SA479 ED 10 AD-11A SEC II Part A.  
Norsok M630 MDS S01  
Acc. to PED 97/23/EC  
NACE MR0175/ISO 15156-3: 2009  
Heat-treatment temperature to be confirmed in certificate

## 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.