

# Astrup MDS

*Super Duplex*

## Material Description

Hot rolled/ forged stainless bar steel  
Annealed, straightened  
Peel turned and polished

## Quality

SAF 2507 / UNS S32750/32760/  
EN 1.4410 / 1.4501/ F53/F55

## Chemical composition

C %	Si %	Mn %	Cr %	Mo %	Ni %	P %	S %	N %	PREn
			24,0	3,0	6,0			0,24	≥ 40
0,03	0,8	1,2	26,0	5,0	8,0	0,035	0,02	0,35	

## 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 (-40 °C)	Hardness HRC	Hardness HB
Min 550	Min 750	Min 25	Min 45	Min 45 avg.		
				Min 35 Single	Max 28	Max 270

## Technical requirements

X2CrNiMoN 25-7-4 / X2CrNiMoCuWN 25-7-4  
ASTM A182-11A (Chemical composition and mechanical properties only), ASTM A479-11, ASTM A276-10  
NORSOK M650, M630 MDS D47  
M630 for MDS D54 (Chemical composition and mechanical properties only)  
NACE MR0175/ISO 15156-3:2009  
PED 97/23/EC Annex 1 par. 4.3  
Corrosion test acc. to ASTM G48A, 50°C/24H  
Ferrite acc. to ASTM E562: 35-55%  
Heat treatment: Solution treated 1025 (F53) / 1100-1140 (F55) °C min, water quenched  
Ultrasonic test acc. to EN 10228-4 / ASTM A388 ≥75MM  
Micrographic photo X500

## 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.