

# Astrup MDS

**1.4418 QT900**

## Material Description

Hot rolled/ forged stainless bar steel  
Hardened and tempered

## Quality

EN 1.4418 / 165M / SS 2387 QT900

## Chemical composition

C %	Si %	Mn %	Cr %	Mo %	Ni %	P %	S %	N %
0,02	0,3	0,6	15,0	0,8	4,5			0,02
0,05	0,7	1,7	17,0	1,25	5,5	≤ 0,04	0,015	0,05

## 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 700	Min 900	Min 16	Min 40	Min 32		Min 280
	Max 1100					Max 340

## Technical requirements

EN 10088-3 QT900

X4CrNiMo 16-5-1

Heat treatment:

Hardening at 1000° C / cooled in air followed by tempering at 520-640° C / cooled in air.

UT-testing ≥ 25mm acc. to EN 10308 type 1a, tab.2, class 4.

## 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.