

# 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 %
<b>Min</b>	<b>0,02</b>	<b>0,3</b>	<b>0,6</b>	<b>15,0</b>	<b>0,8</b>	<b>4,5</b>			<b>0,02</b>
<b>Max</b>	<b>0,05</b>	<b>0,7</b>	<b>1,0</b>	<b>17,0</b>	<b>1,25</b>	<b>5,5</b>	<b>≤ 0,04</b>	<b>0,015</b>	<b>0,05</b>

## 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
<b>Min 700</b>	<b>Min 900</b>	<b>Min 16</b>	<b>Min 40</b>	<b>Min 32</b>		<b>Min 280</b>
	<b>Max 1100</b>					<b>Max 340</b>

## 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.