



# NARVA12 A (ESR)

*Forged Tool Steel*

## Chemical composition

	C	Cr	Mo	W	V
<b>NARVA12 A</b>	<b>1.5</b>	<b>11.5</b>	<b>0.8</b>	<b>-</b>	<b>1.0</b>
NARVA12 B	2.0	13.0	-	1.2	-

**Standards:** AISI D2  
Werkstoff 1.2379

## Properties

	Hardness HRC	Density g/cm <sup>3</sup>	Young's modulus GPa
<b>NARVA12 A</b>	<b>≤ 62</b>	<b>7.7</b>	<b>210</b>
NARVA12 B	≤ 63	7.7	210

## Comparative properties

	Wear resistance	Toughness	Grindability
<b>NARVA12 A</b>	————	————	————
NARVA12 B	————	—	—

## Description

High chromium tool steel manufactured according to Union Electric Åkers specification.

NARVA12 A is delivered in trough hardened condition.

NARVA12 A is also available further refined by ESR (Electro Slag Remelting)

## Applications

Work rolls in 20-high mills for cold rolling of ferrous and non ferrous products.

## Features & Benefit

- Basic well-trying grade for cluster mill work rolls.
- The compromise between wear resistance and toughness makes it suitable for mills and rolled products with general standard and demands.