

## ALPHA 7 (ESR)

Forged High Speed Steel

## Chemical composition

	С	Cr	Мо	W	Co	V
ALPHA7	1.0	4.0	8.6	1.8	-	1.9
ALPHA1	0.8	4.0	8.5	1.7	-	1.2
ALPHA2	0.9	4.2	5.0	6.5	-	1.9
ALPHA3	1.2	4.1	5.0	6.2	-	3.0
ALPHA4	1.3	4.2	4.5	5.5	-	4.0

Standards; AISI M7. Werkstoff 1.3348. JIS SKH58

#### **Properties**

	Hardness HRC	
ALPHA7	≤ 66	
ALPHA1	≤ 65	
ALPHA2	≤ 64	
ALPHA3	≤ 66	
ALPHA4	≤ 66	
	Density g/cm <sup>3</sup>	Young's modulus GPa
ALPHA7	8.0	225

## Comparative properties

	Wear resistance	Toughness	Grindability
ALPHA7		_	
ALPHA1			
ALPHA2			
ALPHA3			
ALPHA4			

## Description

Conventional high speed steel manufactured according to Union Electric Åkers specification.

ALPHA7 is also available further refined by ESR (Electro Slag Remelting).

ALPHA7 is supplied in through hardened condition.

## **Applications**

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

# Features & Benefits

- · High hardness.
- Excellent surface characteristics.
- ALPHA7 is recommended for less severe applications.

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