Product Data



ALPHA 7 (ESR)

Forged High Speed Steel

Chemical composition

	С	Cr	Мо	W	Со	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	5
ALPHA7	≤ 66	
ALPHA1	≤ 65	
ALPHA2	≤ 64	
ALPHA3	≤ 66	
ALPHA4	≤ 66	
	Density	Young's

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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