



LIVALLCO STÅL AB
SMITH & STENSSON

Case hardening steel
C45 / C45E

DESIGNATIONS

Swedish standard	SS 1650 / 1672
ASTM / ASME standard	
Similar grade	
W.stoff nr	1.0503 / 1.1191

CHEMICAL COMPOSITION

C	0,42 - 0,50
Cr	max. 0,40
Cr+Mo+Ni	max. 0,63
Mn	0,50 - 0,80
Mo	max. 0,10
Ni	max. 0,40
P	max. 0,045 (0,030*)
S	max. 0,045 (0,035*)
Si	max. 0,40

* value for C35E

DIMENSION

Plate	1 - 255 mm
Roundbar	Ø 8 - 800 mm
Flat/square	Yes
Hexagon	Yes
Forging	Yes

and angles, T-beams, U-beams

MECHANICAL PROPERTIES

Yield	min. 305 N/mm ²
Tensile	min. 580 N/mm ²
KV	

Are only given as typical value for round bar,
Ø 50 mm

For more information, please contact LIVALLCO STÅL AB, Sweden
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