Last revised: Fri, 31 Jan 2025 15:13:37 GMT



General Information

Ovako 061 is an ingot casted steel of BQ (Bearing Quality). High hardness (approx. 60HRC) and high strength can be achieved after hardening due to the relatively high carbon content. The steel is suitable for various type of applications where high strength is needed. The steel grade fulfils most of the C60E standard and have a tighter composition range in order to have consistent properties

Similar designations

1.1221, ASTM/SAE 1060

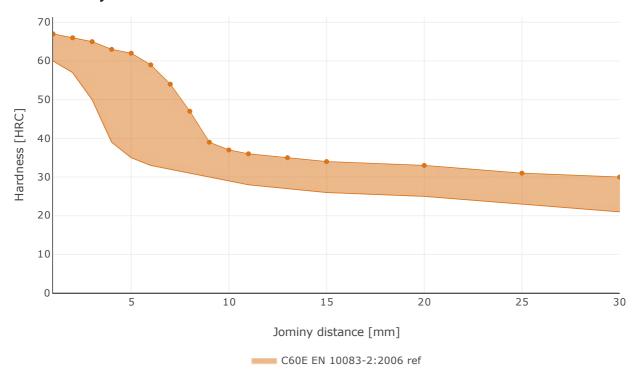
Chemical composition

Variant	Cast		C %	Si %	Mn %	Р%	S %	Cr %	Ni %	Мо %
C60E EN 10083-2:2006 ref	Std	Min	0.57	-	0.60	-	-	-	-	-
		Max	0.65	0.40	0.90	0.030	0.035	0.40	0.40	0.10

Transformation temperatures

	Temperature °C				
MS	271				
AC1	720				
AC3	746				

Hardenability



Steel cleanliness

Micro inclusions									Macro inclusions			
Applied standard	ASTM E45								Applied standard	ISO 3763 (Blue fracture)		
Sampling	ASTM A295							ĺ	Sampling	Statistical testing on billets		
Maximum average	А В			C D				ĺ				
limits	Th	Не	Th	Не	Th	Не	Th	Не		Limits	< 2,5 mm/dm ²	
	2,0	1,5	0,5	0,1	0	0	0,2	0,1				

SUSTAINABILITY-ENVIRONMENTAL IMPACT DATA

At Ovako sustainability and reduction of our environmental impact is a major focus in everything we do.

Further information is found here.

Steel works	Hofors	Smedjebacken	Imatra
CO2e/kg	120	62	76

To get the full picture of our products environmental impact we have to look at all of our CO_2 emission sources.

Not only the steel work Scope 1-2 itself, but all operations downstream in our production, heating and heat treatment furnaces etc (full scope 1-2) as well as all the emission from input material, eg. alloys, scope 3.

Steel Grade	Format	_	Scope 1-3 (CO2e kg /1000 kg steel)	Climate compensated Net emission = Scope 3 (CO2e kg /1000 kg steel) Scope 1 - 2 = 0 (compensated)
061A	Round bar	+AR	569	170
061A	Round bar	+QT	574	173
061A	Tube,wall	+AR	587	190
061A	Tube,wall	+QT	596	196

All above data are to be seen as typical values for the specified format and condition. Detailed information about your specific product please contact your sales contact.

Other properties (typical values)

Youngs module (GPa)	Poisson's ratio (-)	Shear module (GPa)	Density (kg/m3)		
210	0.3	80	7800		
Average CTE 20- 300°C (µm/m°K) Specific heat capacity 50/100°C (J/kg °K)		Thermal conductivity Ambient temperature (W/m°K)	Electrical resistivityAmbient temperature (μΩm)		
12	460 - 480	40 - 45	0.20 - 0.25		

Contact us

Would you like to know more about our offers? Don't hesitate to contact us:

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For more detailed information please visit http://www.ovako.com/en/Contact-Ovako/

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