

Welcome to Ovako Steel Search

This is an interactive search tool that will help you in finding steel grades produced at Oy Ovako AB. The Steel Search gives you two different search options:

1. Search for a specific steel grade

If you know the name of the steel you are looking for you should search according to this option. Choose standard and designation in the pull-down boxes, and the result pops up automatically. You can either search for Ovako designations or comparable standard designations

Ex: Search for En 42CrMo4

Steel grade	Standard	Designation
	<input type="text" value="EN"/> <small>Search for a specific grade by first choosing standard in the left column and then the grade name in the right column.</small>	<input type="text" value="42CrMo4"/> <div style="border: 1px solid black; padding: 2px;"> 34CrNiMo6 35Cr4 36MnB4 38B2 38Cr4 38CrB4 38MnVS6 42CrMo4 42CrMoS4 46MnVS3 50CrMo4 </div>
Type of steel	Steel group	Product
	<input type="text"/>	<input type="checkbox"/> Bar <input type="checkbox"/> Wire <input type="checkbox"/> Tube & Ring
		Quality
		<input type="checkbox"/> BQ <input type="checkbox"/> PBQ <input type="checkbox"/> IQ <input type="checkbox"/> M


2. Specify a type of steel

Search for a specific group of steels by specifying steel group, product, casting type, quality and chemical composition. You can either search on one of these items or combining a search on several items.

The **steel group** describes what the steel is suitable for, like for example cold heading, carburizing or bearing applications. The choice of **products** are bar, wire or tube & ring. A specific **quality** is either a cleanliness specification or a M-treatment. **Casting** describes in what way the steel is processed. With **chemical composition** you can search on the level of the most common **alloying elements** (C, Si, Mn, S, Cr, Mo, Ni) or if it is additionally alloyed with Al, B, Nb, V or W.

Ex: Search for a bar suitable for Quench and tempering and alloyed with 0,4%C and 2,0%Ni

Type of steel	Steel group	Product	Casting	Quality
	<input type="text" value="QT"/>	<input checked="" type="checkbox"/> Bar <input type="checkbox"/> Wire <input type="checkbox"/> Tube & Ring	<input type="checkbox"/> Ingot <input type="checkbox"/> Continuous Billet <input type="checkbox"/> Continuous Bloom	<input type="checkbox"/> BQ <input type="checkbox"/> PBQ <input type="checkbox"/> IQ <input type="checkbox"/> M
	Chemical composition	Also alloyed with		
	C <input type="text" value="0.2"/> Si <input type="text"/> Mn <input type="text"/> S <input type="text"/> Cr <input type="text"/> Mo <input type="text"/> Ni <input type="text" value="2"/>	<input type="checkbox"/> Nb <input type="checkbox"/> V <input type="checkbox"/> Al <input type="checkbox"/> W <input type="checkbox"/> B		

The result gives a list of steel grades containing information on chemical composition, indications on what the steels are suitable for and in what conditions they are available. Launch the “available as” information by holding the mouse marker over the -indication. **Click on the steel name** to launch a datasheet for that steel grade.

Standard descriptions	
Ovako	The standard name used within the Ovako group and the web name
AFNOR	The old French standard designations
EN	European standard designations
BS	The old British standard designations
ASTM/ SAE	US standard designations
SS	Old Swedish standard designations
Hof	Internal designations used in Hofors
Ima	Internal designations used in Imatra
Sme	Internal designations used in Smedjebacken
Wire	Internal designations used by the wire division
Steel group descriptions	
Q&T	Steels suitable for quench and tempering
Case Hard	Steel suitable for case carburizing
Through Hard	Through hardening steels (Steels used in a fully martensitic, or bainitic structure , which has only been low temperature tempered, <220 C°)
Nitriding	Steels suitable for nitriding
Gas/Air Hard	Steels with high hardenability making them suitable to direct harden in air or by gas quenching
Temp. resistant	Steels for use in elevated temperatures
Flame or induction	Steels suitable for flame or induction hardening
General structural	General structural steels
Cold heading	Cold heading steels
Cold drawing	Cold drawing steels
Boron steels	Boron alloyed steels
Micro alloyed	Steels micro alloyed with V, Al, Nb, Ti or W, for grain refinement or precipitation hardening
High carbon	Steels with high carbon content
Special mild	Steels with yield strength below 300Mpa
Bearing steel	Steels for bearing applications
Spring steel	Steels for springs
Tool steel	Tool steels
Welding consum.	Welding consumables
Quality descriptions	
BQ	Available with Bearing Quality
PBQ	Available with Premium Bearing Quality
IQ	Available with Isotropic Quality
M	Available as M-treated
Product descriptions	
Bar	Available as bar
Wire	Available as wire
Tube and ring	Available as tube ring