

# EXCEL CHEAT SHEET

## EXCEL SHORTCUTS

### File

Create new workbook  
 Open workbook  
 Save workbook  
 Save as  
 Print

Alt+F

Ctrl+N

Ctrl+O

Ctrl+S

Ctrl+P

Open print preview window  
 Close current workbook  
 Close Excel

Ctrl+P

Ctrl+W

Alt+F4

### Ribbon

Select an adjacent ribbon  
 Activate Excel Help  
 Move to next ribbon context  
 Activate or open selected context  
 Customized change  
 Get help on selected context

Alt+R

F1

Ctrl+Tab

Alt+H

Alt+Shift+H

Alt+Shift+H

### Drag and Drop

Drag and drop  
 Drag and copy  
 Drag and move  
 Drag and move (with lock)  
 Drag to another sheet  
 Drag to duplicate worksheet

Ctrl+Drag

Ctrl+Shift+Drag

Ctrl+Drag

Ctrl+Shift+Drag

Ctrl+Drag

Ctrl+Drag

### Active Cell

Select active cell only  
 Move active cell  
 Move clipboard to selection  
 Move down in selection  
 Move up in selection  
 Move right in a selection  
 Move left in a selection

Ctrl+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

### General

Open Help  
 Undo last action  
 Redo last action  
 Copy selected cells  
 Repeat last action  
 Cancel last action  
 Paste selected from clipboard  
 Display paste options  
 Display first and last pages  
 Print with printer selected  
 Stop printing  
 Print last page  
 Print page number  
 Print last page  
 Close embedded object  
 Double-click to view embedded  
 Toggle auto filter

Alt+H

Ctrl+Z

Ctrl+Y

Ctrl+C

Ctrl+Z

Ctrl+V

Alt+F

Ctrl+N

Ctrl+O

Ctrl+S

Ctrl+P

Ctrl+P

Ctrl+W

Alt+F4

Alt+R

F1

Ctrl+Tab

Alt+H

Alt+Shift+H

Alt+Shift+H

Ctrl+Drag

Ctrl+Shift+Drag

Ctrl+Drag

Ctrl+Shift+Drag

Ctrl+Drag

Ctrl+Drag

Ctrl+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

Alt+Home

Alt+H

Ctrl+Z

Ctrl+Y

Ctrl+C

Ctrl+Z

Ctrl+V

### Selection

Alt+Enter

Ctrl+Enter

### Select Special

Ctrl+Shift+>

Alt+Enter

Ctrl+Enter

### Operations

Ctrl+Z

Ctrl+Y

# The Essential Guide Excel 50 For Windows

**VM Jensen**



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*The Software Encyclopedia 2000* Bowker Editorial Staff,2000-05

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Independent and Weekly Review ,1884

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web there are quite a few studies on the grain refinement and mechanical properties of aisi 4145 steel therefore in this study the mechanical characteristics related to the grain growth behavior of aisi 4145 steel have been investigated

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web description aisi 4145 carbon steel and mechanical properties chemical element cross reference datasheet datasheet for steel grades carbon steel aisi 4145 chemical composition mass fraction wt of the aisi 4145 mechanical properties of steel grade aisi 4145 physical properties of steel grade aisi 4145

*4145h ningshing precision machinery* - Feb 03 2022

web characteristics aisi sae 4145h grade is a low alloy steel containing chromium and molybdenum as strengthening agents the steel has good fatigue strength and impact toughness in low temperature weldability and machinability applications

**datasheet for steel grades carbon steel aisi 4145** - Aug 21 2023

web tensile strength 115 234  $\sigma_b$  mpa yield strength 23  $\sigma_0.2$  mpa elongation 65  $\delta_5$   $\psi$   $\psi$  akv akv j hbs 123 321 hrc 30 aisi 4145 mechanical properties tensile strength 231 231  $\sigma_b$  mpa yield strength 154  $\sigma_0.2$  mpa elongation 56  $\delta_5$   $\psi$   $\psi$  akv akv j hbs 235 268 hrc 30 aisi 4145 heat treatment regime

*aisi 4145h modified a low alloy steel with hardenability* - Mar 16 2023

web it has improved hardenability and is more commonly used in the high strength condition with minimum yield 125 ksi 110 ksi applications aisi 4145h is a low alloy steel suitable for downhole drilling tools such as subs x overs drill collars pup joints and fishing tools

**aisi 4145 alloy steel uns g41450 azom com** - Sep 10 2022

web in comparison with carbon steels alloy steels are a lot more responsive to mechanical and heat treatments alloy steels can be subjected to unique melting and deoxidization processes for specific kind of applications the following datasheet provides an overview of aisi 4145 alloy steel

*aisi 4140 alloy steel uns g41400 azom com* - Apr 05 2022

web dec 18 2019 aisi 4140 alloy steel can be tempered at 205 to 649 c 400 to 1200 f depending upon the desired hardness level the hardness of the steel can be increased if it has a lower tempering temperature for example a tensile strength of 225 ksi can be achieved by tempering at 316 c 600 f and tensile strength of 130 ksi can be

sae aisi 4145 scm445 g41450 cr mo steel makeitfrom com - Dec 13 2022

web may 30 2020 shear strength 360 mpa 52 x 103 psi tensile strength ultimate uts 580 mpa 85 x 103 psi tensile strength yield proof 360 mpa 53 x 103 psi thermal properties latent heat of fusion 250 j g maximum temperature mechanical 420 c 790 f melting completion liquidus 1460 c 2650 f

**4145h modified api spec 7 voestalpine** - Apr 17 2023

web description aisi 4145h is a chromium molybdenum quality alloy steel specification as a high tensile steel grade aisi 4145h is primarily supplied in the hardened and tempered condition to 30 36hrc range to aisi 4145h modified

aisi 4145 4145h steel astm a29 waldun steel - Sep 22 2023

web aisi 4145h has improved hardenability and is more commonly used in the high strength condition with min 110 ksi yield we welcome enquiries for aisi 4145 4145h steel contact our sales office for further details aisi 4145 4145h

**steel aisi 4145 modified liberty steel group** - Jun 19 2023

web the specification defines the requirements for aisi 4145 hot rolled crmo bars hardened and tempered to meet either 110ksi 120ksi or 125ksi minimum yield strength steel manufacture steel is manufactured via electric arc furnace followed by ladle refining and vacuum degassing and is either cast into bottom

**material data sheet aisi sae 4145 tel email** - Feb 15 2023

web aisi 4145 is a chromium molybdenum alloy steel grade widely used in the oil and gas sectors for down hole applications similar to aisi 4140 but with a higher carbon content 4145 is more popular in larger diameters due to its increased strength and hardenability

**aisi 4340 vs aisi 4145h metal and metallurgy engineering** - May 06 2022

web dec 21 2011 materials engineers metal and metallurgy engineering forum aisi 4340 vs aisi 4145h 3 thread330 312793 forum search faqs links mvps eltoon mechanical op 20 dec 11 02 46

**aisi 4145 h modified quenched tempered bar matmatch** - Jan 14 2023

web description aisi 4145h is a chromium molybdenum low alloy tempered steel it has improved hardenability and is more commonly used in the high strength condition with min 110 ksi yield related standards equivalent materials en 1 7225 this material data has been provided by sverdrup steel

**aisi 4145 alloy steel data sheet west yorkshire steel co ltd** - May 18 2023

web aisi 4145 alloy steel data sheet west yorkshire steel co ltd author microsoft office user keywords aisi 4145 steel stockholders and suppliers delivering to the whole of the uk aisi 4145 is a chromium created date 9 29 2022 4 02 59 pm

**steel alloy manual 1a** - Oct 11 2022

web aisi 3312 1 2 aisi 4130 3 4 aisi 4140 5 7 aisi 4145 8 aisi 4340 9 10 aisi 8620 11 12 2 cold finished steels aisi 1018 13 14 aisi 12114 15 aisi 1045 t g 16 17 chromed shafting 18 induction hardened shafting 19 aisi 4140 precision 20 3 hot rolled steels aisi 1020 21 aisi 1040 1050 22 23 4 tool steels aisi o 1 24

**aisi 4145 alloy steel uns g41450 composition properties** - Jul 20 2023

web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

**energy alloys global solutions 100 oil and gas focused** - Jun 07 2022

web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher