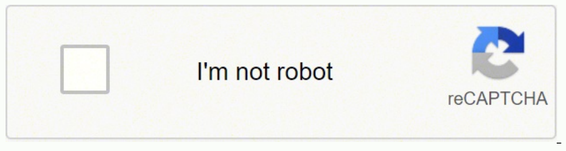

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CHEMICAL COMPOSITION OF 4130 To help you understand this particular steel more, here’s a quick breakdown of the chemical content of the 4130 steel. Temper as soon as tools reach room temperature. 4130 steel has a minimum yield or tensile strength at 55 KSI (80,000 PSI). Mechanical Properties in Tempering Condition(18-22 HRC) Tensile 0.2% Proof Stress Elongation Reduction Hardness Hardness KSI KSI % of Area % HRc Brinell Min 95 75 20 40 18 217 Max 130 110 22 235 Applications AISI 4130 steel is widely used for a variety of applications in the oil and gas sector. 4150 has a carbon content of .28-.33%, manganese at 0.70-0.85%, phosphorus at 0.035%. Hardening of 4130 Alloy structural steel Heated slowly to 870-890°C, Then after adequate soaking at this temperature quench in oil. In the steel family of 41xx, 4130 is one of the most famous and the most prominent. 20MnCrS5 / 1.7149 Steel a Chromium-Manganese steel according to DIN standard which has tensile strength and wearing resistance after QT heat treatment.It is widely used in piston bolts, spindles, camshafts, gears, shafts and other mechanical controlling parts. You can actually consider it as the all-around type of steel that you need! Here are some of the other reasons why it is much better to use 4130 steel compared to other types of steel: They’re Malleable One of the most notable characteristics 4130 steels have is that they’re malleable. WHAT ARE THE USES FOR 4150? UNDERSTANDING WHAT 4130 STEEL IS The 4130 steel is a type of low-carbon steel with chromium-molybdenum alloys. WHERE YOU CAN PURCHASE THE BEST QUALITY OF 4130 STEEL Waldun Steel will never fail in providing the best and the highest quality of 4130 steel. This causes the steel to harden and temper, which gives it its strength and toughness. 4150 also contains sulfur, which 4130 does not contain. This means that if you were to pull on two 4130 steel pieces with a force of 55,000 pounds per square inch (PSI) they would break. We will be giving you the guide on how you can purchase the best quality of 4130 steel in the market! 4130 steel is a type of high strength low alloy steel that has chromium and molybdenum added to improve the hardenability. WHAT ARE THE USES OF 4340? Some common applications for 4130 steel include tubing, sheet metal, structural shapes and automotive parts. Tubing and fittings are among the many applications of 4130 steel 4130 steel is a type of steel widely used in the structural and the construction industry. Because 4130 weighs more than 4150 it is best used in applications that require a high strength to weight ratio. The strength, ductility, and overall toughness of 4130 steel is due to its chemical composition NOTE: This is based off of the standard of the ASTM; also, as per specified by the AISI and the SAE: ≤ 0.04% of Sulfur (S) 28% to 0.33% of Carbon (C) ≤ 0.035% of Phosphorus (P) 8% to 1.1% of Chromium (Cr) 15% to 0.35% of Silicon (Si) 15% to 0.25% of Molybdenum 7% to 0.9% of Manganese (Mn) This is the regular chemical composition of the 4130 steel. Or would a different type and kind of steel be better for your project or for your application? 4130 has a black oxide finish that can be easily painted or powder coated over top of to protect against corrosion, oxidation or rusting after fabrication into parts. 4130 has a carbon content of .28-.33%, manganese of 0.70-0.85%, phosphorus at 0.035%. 4150 has a carbon content of .28-.33%, manganese of 0.70-0.85%, phosphorus at 0.035%. OTAI SPECIAL STEEL is 4130 Alloy steel stockholders and suppliers from china. This makes 4130 less susceptible to corrosion and improves the hardness of the steel. WHAT DOES 4130 LOOK LIKE? But, it’s more brittle and more likely to break under high impact and high-pressure situations. Due to its physical properties, it abides by the rules and the regulations established by both the SAE and the AISI. The chemical composition of 4130 is as follows: Carbon 0.28-0.33% Manganese 0.70-0.85% Phosphorus 0.035 max Sulfur 0.040 max Chromium 0.80-0.90% Molybdenum 0.15-0.25% Silicon 0.15 max 4130 steel has a carbon content of .28-.33%, manganese of 0.70-0.85%, phosphorus at 0.035%. This makes 4130 a good choice for applications where a high strength to weight ratio is important. WHAT ARE THE DIMENSIONS 4130? Apart from that, though, you can find use of it in other uses and applications such as: Clutch, flywheel, and other automotive parts and components Gas bottles Bicycle parts and components Firearm components Roll cages And many more! You will never have any type of shortage in finding the best applications for 4130 steel! WHY YOU NEED TO USE 4130 STEEL Unlike other types of steel, 4130 steel is moderately good in terms of weldability. 4150 is a chromium-molybdenum alloy steel that is used in the quench and temper process to provide 4150 with its high strength and toughness. However, 4130 is lighter in weight than 4150 or 4340. 4130 has about 0.30%, while 4140 has 0.40%, and if you think it’s not a big difference, it is when they’re subject to highly elevated temperatures. Furthermore, it’s also tough and strong, and it contains significant levels of ductility and precision. HOW MUCH DOES 4130 WEIGH? 4130 is not as tough as 4340, so it should not be used in applications that require a high amount of toughness. 4340 has greater toughness than 4130 so it can be used to make parts that require a higher level of toughness. 4130 sheet metal has a dull finish with a slight sheen. 4340 has a carbon content of .38-.43%, manganese of 0.70-0.85%, phosphorus at .035%. WHAT ARE THE DIFFERENCES BETWEEN 4130 AND 4150? 4130 is typically tempered at a lower temperature than 4150 or 4340 to avoid any loss of toughness. 4130 steel has a higher tensile strength than 4150 steel, making 4130 a good choice for applications that require high strength. HOW IS 4130 DIFFERENT FROM 4150 AND 4340? 4130 steel has great corrosion resistance and is easily welded, machined or formed without causing damage to the steel. 4130 also contains chromium and molybdenum, which are both used in the quench and temper process to provide 4130 with its strength and toughness. 4130 tubing has a shiny finish and can be easily welded without causing any damage to the steel. IS 4130 CORROSION RESISTANT? 4130 steel is stronger than 4150 or 4340. 4340 is also corrosion resistant compared to 4130 which makes 4150 less susceptible to rusting after fabrication into parts. The most customary materials and components made in this industry include bearings and gears, drill bits, mills, lathes, and cutters, rock crushers, and many more. 4130 STEEL VS. 4140 STEEL: WHICH ONE IS STRONGER? They Can Be Smoothly-Finished More often than not, 4130 steels are finished smoothly and flawlessly, and you can actually choose how the 4130 steel’s going to be polished! They Have High Versatility in Application Because of the extremities in its properties and characteristics, you can find many different uses and applications of 4130 steel. That’s’ why we’ve dedicated this guide to help and assist you in purchasing 4130 steel. AISI 4130 steel Round bar can be sawn to your required lengths as one offs or multiple cut pieces. 4130 also has a higher fatigue limit, meaning it can withstand more stress over time before breaking. Round sheet Square Plate Chemical composition C(%) 0.28 ~ 0.33 Si(%) 0.15 ~ 0.35 Mn(%) 0.40 ~ 0.60 P(%) ≤0.035 S(%) ≤0.040 Cr(%) 0.80 ~ 1.10 Mo(%) 0.15 ~ 0.25 Heat treatment Related Annealing of 4130 Alloy structural steel Slowly heated to 850 ℃ and allow enough times, let the steel to be thoroughly heated, Then cool slowly in the furnace to 480 ℃ follow by air cool. And if you think that this strength is a common denominator across all types of steels, think again! The tensile strength of regular untreated steels sit anywhere between 53,700 and 63,800 psi – that’s enough to make you think how hard, tough, and strong 4130 steels are. Yes, 4130 has excellent corrosion resistance and can be easily painted or powder coated after fabrication. 4130 is corrosion resistant compared to 4150 which contains sulfur, making 4150 more susceptible to rusting as well as other forms of oxidation such as heat checking, pitting and crevice corrosion. WHAT ARE THE PROPERTIES OF 4130? 4130 weighs approximately 14lbs/ft or .25 lbs per inch of thickness. 4130 alloy steel ground bar can also be supplied, providing a high quality tool steel precision ground tool steel bar to your required tolerances. The first (1st) digit of the grade refers to the steel class and the alloying parts. 4130 has a low carbon content and the addition of chromium and molybdenum helps to prevent the formation of magnetite. IS 4130 A GOOD MATERIAL FOR PROJECTS? 4130 is also corrosion resistant compared to 4150 which makes 4130 less susceptible to rusting after fabrication into parts. 4150 has greater toughness than 4130 so it can be used to make parts that require a higher level of toughness. 4130 With a lower carbon content range, So the 4130 alloy steel have better weldability than AISI 4140 Alloy steel. AISI 4130 Alloy structural steel properties is a chromium molybdenum alloy steel specification. 4130 does not contain sulfur like 4150 which makes 4130 less susceptible to rusting after fabrication into parts. Normalizing of 4130 Alloy structural steel Heated slowly to 850-880°C,Keep about 2 hours.Then cool in air. 4130 steel example in round bar shape/form It’s part of the 41xx steel family and is known to possess tensile and yield strengths of 85,000 to 110,000 psi and 70,000 to 85,000 psi respectively. IS 4130 MAGNETIC? 4150 also has better weldability than 4130 steel, but 4130 is stronger and less tough than 4150 which makes it a good choice for applications that require high strength or low weight like automotive applications. Do you really need to use 4130 steel? 4130 is great for applications where a high strength to weight ratio and corrosion resistance are required such as in automotive parts including exhaust tubing and headers. Yes, 4130 is heat treated using the quench and temper process. 4150 is used for applications that need a high strength and low weight such as in aircraft parts, gears and shafts. Whether you need 4130 steel in a round bar, a square or a rectangular bar, a plate, or a steel sheet, we’ll be able to help you! Over the course of more than a decade, we have been trusted by thousands of businesses and companies from all around the world! Like them, you can get world-class quality 4130 steel by working with us! Never settle for less! Work with us and get abundant supplies of 4130 steels in the best and the most competitive rates. Page 2 Learning everything about 4130 steel can bring a lot on your plate. WHAT IS THE DIFFERENCE BETWEEN 4130 AND 4340 STEEL? 4340 also contains sulfur, which 4130 does not contain. Related Specifications ASTM A29/A29M DIN EN 10083/3 JIS G4053 GB GB/T 3077 4130 steel data files Down Form of Supply AISI 4130 Alloy steel, we can supply the round bar, steel flat bar, plate, hexagonal steel bar and steel square block. 4340 is not as tough as 4130, so it should not be used in applications that require a high amount of toughness. 4130 is not magnetic which makes it ideal for welding and forming without creating any harmful effects to the steel. Therefore, you can cut, form, and shape them easily without the fear of losing strength, toughness, and overall durability. 4130 sheet metal is available in thicknesses ranging from less than 60 thousandths (0.060”) up to and exceeding two inches. more 16 years experience in 4130 steel supply. 4130 can be easily welded, machined or formed without causing damage to the 4130 steel. The most common use of 4340 allows it to be used in structural shapes because of its ability to withstand wear and tear from weathering or other types of corrosion. WHERE DOES THE TERM 4130 STEEL COME FROM? You can find them to be malleable even when they’re raw – just after production. Typical applications such as valve bodies, pumps and fittings, Shaft, spindle, and the high load of wheel, bolts, double-headed bolts, gears, etc Regular size and Tolerance 1) Hot Rolled round bar Diameter (mm) Diameter Tolerance (mm) Diameter (mm) Diameter Tolerance (mm) ≤12.70 -0.13 ~ 0.30 >50.80 ~ 63.5 -0.25 ~ 0.76 12.7 ~ 25.40 -0.13 ~ 0.41 >63.50 ~ 76.20 -0.25 ~ 1.02 >25.4 ~ 38.10 -0.15 ~ 0.51 >76.20 ~ 101.60 -0.30 ~ +1.27 >38.1 ~ 50.80 -0.20 ~ 0.64 >101.60 ~ 203.20 -0.38 ~ 3.81 2) Hot Rolled steel plate Thickness (mm) Thickness Tolerance (mm) Thickness (mm) Thickness Tolerance (mm) ≤25.4 -0.41 ~ 0.79 >127 ~ 152 -1.60 ~ 2.39 >25.4 ~ 76 -0.79 ~ 1.19 >178 ~ 254 -1.98 ~ 3.18 >76 ~ 127 -1.19 ~ 1.60 >254 ~ 305 -2.39 ~ 3.96 Others 4130 have not specified size, pls contact our experienced sales team. Yes! 4130 steel is an excellent material for projects. The second (2nd) digit is the symbol for the alloying elements’ relative percentages. 4130 is much stronger than 4150 or 4340 but it also weighs more as well making 4130 best for applications that require high strength and low weight. You can use it in the construction or the structural sector, the automotive or the aerospace industry – and even in the production and the manufacturing of the parts and components of firearms, ships, defense articles, manufacturing equipment, and many more. Contact our experienced sales team to help you with your 4130 alloy steel questionsadn enquiry by Email or Telphone. The questions will be reply in 24 hours. WHAT ARE THE PROPERTIES OF 4150? After the steel has been formed into its desired shape, it is heated to a high temperature and then quickly quenched in oil or water. Now that we know how these grades are named and distinguished, it’s easier for us to know how 4130 steel is different from 4140 steel. To answer the question, yes, 4140 steel is harder and stronger than 4130 steel. But have you ever wondered why it’s called and deemed 4130 steel in the first place? Processing AISI 4130 alloy steel round bar and flat sections can be cut to your required sizes. IS 4130 HEAT TREATED? The only difference is with the carbon content in the steel. In case you’re not aware, the term “4130” is because of its composition. Learning everything about 4130 steel can bring a lot on your plate. 4130 does not contain sulfur, but 4150 contains 0.15%. 4130 can also be used in structural shapes because of its ability to withstand wear and tear from weathering or other types of corrosion. The 4130 alloy steel will get MAX 250 HB (Brinell hardness) . 4130 is also stronger than 4150 or 4340, making it a good choice for projects that need a high level of strength. WHAT ARE THE CHEMICAL COMPOSITION OF 4130? 4130 alloy steel Rectangular pieces can be sawn from flat bar or plate to your specific sizes. Ground tool steel bar can be supplied, providing a quality precision finished bar to tight tolerances. This means the 4130 steel tubing with a diameter of one inch will weigh about six pounds while 4130 sheet metal with a thickness of one eighth of an inch will weigh about 0.06 lbs per square foot. 4340 is used for applications that need a high strength and wear resistance such as in aircraft parts, gears and shafts. WHAT ARE THE COMMON APPLICATIONS OF 4130 STEEL? 4130 steel has many benefits including being stronger than 4150 or 4340, but lighter in weight. They’re both molybdenum-chromium steels, which is about 1% of them. The propertie s of 4130 include a carbon content of .28-.33%, manganese of 0.70-0.85%, phosphorus at 0.035%. Image of 4140 steel stacked up on top of each other In terms of composition, both 4130 and 4140 are similar. Tempering of 4130 Alloy structural steel Heated to 400-565°C, Keep at the temperature for 2 hours per 25mm of section, then allow to cool in air. 4150 is also corrosion resistant compared to 4130 which makes 4150 less susceptible to rusting after fabrication into parts. No, 4130 steel is not magnetic. 4130 can be used in applications where large loads are common such as axles, gears, crankshafts and frames for off-road vehicles. 4130 tubing and 4130 sheet metal are available with an inside radius as small as one-half inch on tube sizes up through two inches in diameter. WHAT ARE THE APPLICATIONS FOR 4130? That being said, it’s easy to say that the 4130 steel is a part of the 41xx family (which is chromium-molybdenum steels with 1%, and about 0.30% of carbon. 4130 is also known as Chromoly, which is the name for an American Iron and Steel Institute (AISI) designation. Page 3 20MnCrS5 / 1.7149 Steel manufacturers and suppliers, supplied in round rods,square/flat bars,rollers,shafts,blocks and forging pieces. The 4130 steel tubing has a diameter range from .188″ to nearly 13″. AISI 4130 steel is also available as Ground Flat Stock / Gauge Plate, in standard and nonstandard sizes. 20MnCrS5 / 1.7149 Steel Chemical Composition per EN 10084 (Case Hardening Steel) GRADE NUMBER C Si Mn P S Cr 20MnCr5 1.7149 0.17-0.22 ≤ 0.40 1.10-1.40 ≤ 0.025 0.020-0.040 1.00-1.30 20MnCrS5 / 1.7149 Steel Mechanical Property Tensile strength Yield strength Elongation Reduction of area 1400Mpa 1200MPa 13 57 DIN AFNOR BS ASTM/SAE 16MnCr5 16MC5 590M17 5115 20MnCr5 20MC5 – 5120 20MnCrS5 / 1.7149 Steel Heat Treatment & Mechanical Property 20MnCr5/20MnCrS5 Normalizing,°C 840-870 Annealing,°C 650-700 Carburizing,°C 880-980 Core Hardening,°C 860-900 Case Hardening,°C 780-820 Tempering,°C 150-200 20MnCrS5 / 1.7149 Steel Hardness requirements for delivery conditions Conditions 16MnCr5/16MnCrS5 20MnCr5/20MnCrS5 Treated to improve shearability(+S) – ≤255 Soft annealed(+A) ≤207 ≤217 Treated to Hardness range(+TH) 156-207 170-217 Treated to ferrite-pearlite structure and hardness range(+FP) 140-187 152-201 Normalized(+N) 138-187 140-201 20MnCrS5 / 1.7149 Steel Hardenability Limits Distance from quenched end mm 1.5 3.0 5.0 7.0 9.0 11 13 15 20 25 30 35 40 16MnCr5+H 16MnCrS5+H Min 39 36 31 28 24 21 – – – – – – – Max 47 46 44 41 39 37 35 33 31 30 29 28 27 20MnCr5+H 20MnCrS5+H Min 41 39 36 33 30 28 26 25 23 21 – – – Max 49 49 48 46 43 42 41 39 37 35 34 33 32 16MnCr5+HH 16MnCrS5+HH Min 42 39 35 32 29 26 24 22 20 – – – – Max 47 46 44 41 39 37 35 33 31 30 29 28 27 20MnCr5+HH 20MnCrS5+HH Min 44 42 40 37 34 33 31 30 28 26 25 24 23 Max 49 49 48 46 43 42 41 39 37 35 34 33 32 16MnCr5+HL 16MnCrS5+HL Min 39 36 31 28 24 21 – – – – – – – Max 44 43 40 37 34 32 30 28 26 25 24 23 22 20MnCr5+HL 20MnCrS5+HL Min 41 39 36 33 30 28 26 25 23 21 – – – Max 46 46 44 42 39 37 36 34 32 30 29 28 27 20MnCrS5 / 1.7149 Steel Supply Form & Size Round Bars: Dia.80 – 1,000mm as Forged Flat / Square Bars: Thickness Max.800mm Shafts, Rollers, Blocks: Customized or According to Drawing Rolled Round Bars: Dia.16 – 130mm with UT Assurance Heat treatment: Normalizing (+N), Annealing (+A) Surface finish:Black / Rough turned / Peeled © Copyright - WALDUN STEEL The propertie s of 4150 include a carbon content of .28-.33%, manganese of 0.70-0.85%, phosphorus at 0.035%. The last digits (3rd and 4th) is the representation of the carbon content in it – it’s shown in increments of 0.01%. AISI 4130 alloy Steel is a high quality Quenched and Tempered Alloy Structural steel, It belong to the high quality low carbon, Oil Quenched & Tempered Hardenss is 28-34 HRc. AISI 4130 steel Annealing delivery hardenss less than 250HB. WHAT IS THE TENSILE STRENGTH OF 4130?

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