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Aluminium alloy 6082- t6 datasheet

Aluminium alloy Commercial alloy 6082 - T6-T651 Plate Aluminum alloy 6082 is a medium-strength alloy with excellent corrosion resistance. It has the highest strength of 6000 series alloys. Alloy 6082 is known as the construction alloy. Plate form, 6082 is the alloy most commonly used mechanical. Since the relatively new alloy, the higher strength of the 6082 has seen it replaced by 6061 in many applications. The addition of a large amount of manganese controls the structure of the grain, which in turn results in a stronger alloy. Melting 6082 is difficult to produce thin walled, intricate extrusion shapes. The extruded surface finish is not as smooth as other similar strength alloys in the 6000 series. In T6 and T651 tempers, the alloy 6082 machines do well and produces dense rollers to dwarf when the chip circuit breakers are used. Applications6082 kasutatakse tavaliselt:~ Väga stressis rakendusi ~ Trusses ~ Bridges ~ Kraanad ~ Transport rakendused ~ Ore skips ~ Beer barrelit ~ Piim piimapütid BS EN 573-3:2009 Alloy 6082 Keemiline element % Praegu Mangan (Mn) 0,40 - 1,00 Raud (Fe) 0,0 - 0,50 Magneesium (Mg) 0,60 - 1,20 Räni (Si) 0,70 - 1,30 Vask (Cu) 0,0 - 0,10 Tsink (Zn) 0,0 - 0,20 Titaan (Ti) 0,0 - 0,10 Kroom (Cr) 0,0 - 0,25 Muud (Iga) 0,0 - 0,05 Muud (Kokku) 0,0 - 0,15 Aluminium (Al) Tasakaal Aluminiumisulam 6082 vastab ka järgmistele standardnimetustele ja spetsifikatsioonidele, kuid ei pruugi olla otseselt samaväärne: AA6082 HE30 DIN 3.2315 ET AW-6082 ISO: Al Si1MgMn A96082 Füüsikaline varaline väärtus Tihedus 2,70 g/cm³ Sulamistemperatuur 555 °C Soojuspaisumine 24 x10⁻⁶°C/K Elastuse modulatsioon 70 GPa soojusjuhtivus 180 W/m.K Elektriline takistus 0.038 x10⁻⁶ Ω .m BS EN 485-2:2008 Plate - 6.00m kuni 12.5mm Mechanical Property Value Proof Stress 255 min MPa tõmbetugevus 300 min MPa venivus A50 mm 9 % Kõvadas Brinell 91 HB BS EN 485-2:2008 Plate - 12.5mm kuni 100.00mm Mehaaniline kinnisvara väärtuse Proof Stress 240 Min MPa Tensile Strength 295 min MPa Hardness Brinell 89 HB BS EN 485-2:2008 Plate - 100.00mm to 150.0 0mm Mechanical Property Value Proof Stress 240 Min MPa Tensile strength 275 Min MPa Hardness Brinell 84 HB elongation 6 min % 6082 is very good weldability, but strength is lowered in the weld zone. When welded by itself, alloy 4043 wire is recommended. If welding 6082-7005, then the wire should be alloy 5356. Weldability - Gas: Good weldability - Arc: Good weldability - Resistance: Good solderability: Good soldering: Good performance - Cold: Good Mechanical processing: Good These data is recommended only and as such can not be relied upon instead of the full specification. In particular, mechanical property requirements vary greatly in terms of temperment, product and product dimensions. All information is based on our current knowledge and is given in good faith. The company is not responsible for any measures dependent on it by any third party. Note that the date of update of the datasheet above does not guarantee or whether the datasheet is up to date. The information in this data sheet is drawn from various recognised sources, including EN standards, recognised industry references (printed and web-based) and manufacturer data. There is no guarantee that the information will come from the last number of these sources or the accuracy of their sources. Material provided by the company may differ material material material from these data, but it complies with all relevant and applicable standards. Since the detailed products can be used for very different purposes and because the Company has no control over their use; An enterprise specifically excludes all terms or warranties expressed or implied by law or otherwise in relation to dimensions, characteristics and/or any specific purpose, whether expressed or implied. Advice given by an enterprise to a third party shall be given only for the assistance of that person and without the company's liability. All transactions are subject to the Company's current terms of sale. The extent of the Company's obligations to any client is clearly set out in these Terms and Conditions; a copy of which is available upon request. Aluminium alloy 6082 is a medium-strength alloy with excellent corrosion resistance. It has the highest strength of 6000 series alloys. Alloy 6082 is known as the construction alloy. Plate form, 6082 is the alloy most commonly used mechanical. Since the relatively new alloy, the higher strength of the 6082 has seen it replaced by 6061 in many applications. The addition of a large amount of manganese controls the structure of the grain, which in turn results in a stronger alloy. Melting 6082 is difficult to produce thin walled, intricate extrusion shapes. The extruded surface finish is not as smooth as other similar strength alloys in the 6000 series. In T6 and T651 tempers, the alloy 6082 machines do well and produces dense rollers to dwarf when the chip circuit breakers are used. 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If welding 6082-7005, then the wire should be alloy 5356. Weldability - Gas: Good weldability - Arc: Good weldability - Resistance: Good solderability: Good soldering: Good performance - Cold: Good Mechanical processing: Good These data is recommended only and as such can not be relied upon instead of the full specification. In particular, mechanical property requirements vary greatly in terms of temperment, product and product dimensions. All information is based on our current knowledge and is given in good faith. The company is not responsible for any measures dependent on it by any third party. Note that the date on which the datasheet is updated above does not guarantee accuracy or whether the datasheet is up to date. The information in this data sheet is drawn from various recognised sources, including EN standards, recognised industry references (printed and web-based) and manufacturer data. There is no guarantee that the information will come from the last number of these sources or the accuracy of their sources. Material provided by the company may differ material material material from these data, but it complies with all relevant and applicable standards. Since the detailed products can be used for very different purposes and because the Company has no control over their use; An enterprise specifically excludes all terms or warranties expressed or implied by law or otherwise in relation to dimensions, characteristics and/or any specific purpose, whether expressed or implied. Advice given by an enterprise to a third party shall be given only for the assistance of that person and without the company's liability. All transactions are subject to the Company's current terms of sale. The extent of the Company's obligations to any client is clearly set out in these Terms and Conditions, a copy of which is available upon request. 6082 Aluminium alloy is alloy forged in the aluminium-magnesium silicon family (6000 or 6xxx series). It is one of the most popular alloys in its series (alongside alloys 6005, 6061 and 6063), although it is not heavily featured by ASTM (North American) standards. It is usually formed by extrusion and rolling, but the wrought alloy is not used for casting. It can also be forged and clad, but it is not common for this alloy. It can't work hardened, but is usually cooked to produce tempers with higher strength, but lower suppleness. [1] Alternates include AISI1MgMn, 3.2315, H30 and A96082. The alloy and its different moods are covered by the following standards:[2] EN 485-2: Aluminium and aluminium alloys. Sheet, strip and plate. Mechanical properties EN 573-3: Aluminium and aluminium alloys. Chemical composition and form of forged products. Chemical composition and format of products EN 754-2: Aluminium and aluminium alloys. Cold-drawn rod/rod and tube. Mechanical properties EN 755-2: aluminium and Alloys. Pressed rod/rod, pipe and profiles. Mechanical properties ISO 6361: forged aluminium and aluminium alloy sheets, strips and plates Chemical composition 6082 aluminium alloy composition is:[2] Aluminium: 95.2 to 98.3% Chromium: 0.25% max Copper: 0.1% max Iron: 0.5% max Magnesium: 0.6 to 1.1.1.1999 2% manganese: 0.4% to 1.0% Silicon: 0.7 to 1.3% Titanium: 0.1% max Zinc: 0.2% MAX Residues: 0.15% max Properties Typical material properties 6082 aluminium alloy include:[2] Density: 2.71 g/cm3, or 169 lbs/ft3. Young module: 71 GPa or 10 Msi. Ultimate tensile strength: 140-330 MPa, or 20-48 ksi. Turnover limit: 280 MPa or 13-41 ksi. Heat expansion: 23.1 µm/m-K. Solid: 575 °C or 1070 °F. Links ^ Marks standard manual for mechanical engineers, 8th Ed., McGraw Hill, pp. 6-50-6-58 ^ a b c 6082 (AlSi1MgMn, 3.2315, H30, A96082) Aluminum. Retrieved 2014-12-31. Retrieved from

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