

C Programming Language Basics

This chapter explains the features, technical details and syntaxes of the C programming language. I assume that you could write some simple programs. Otherwise, read "Introduction to Programming in C for Novices and First-time Programmers".

1. Introduction to C

C Standards

C is standardized as ISO/IEC 9899.

1. K&R C: Pre-standardized C, based on Brian Kernighan and Dennis Ritchie (K&R) "The C Programming Language" 1978 book.
2. C90 (ISO/IEC 9899:1990 "Programming Language, C"). Also known as ANSI C 89.
3. C99 (ISO/IEC 9899:1999 "Programming Language, C").
4. C11 (ISO/IEC 9899:2011 "Programming Language, C").

C Features

(TOOO)

C Strength and Pitfall

(TOOO)

2. Basic Syntaxes

2.1 Revision

Below is a simple C program that illustrates the important programming constructs (sequential flow, while-loop, and if-else) and input/output. Read "Introduction to Programming in C for Novices and First-time Programmers" if you need help in understanding this program.

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web ductile iron also known as ductile cast iron nodular cast iron spheroidal graphite iron spheroidal graphite cast iron 1 and sg iron is a type of graphite rich cast iron discovered in 1943 by keith millis 2 while most varieties of cast iron are weak in tension and brittle ductile iron has much more impact and fatigue resistance due

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web sometimes referenced as a adaptable adamant bs2789 casting 500 7 is a spheroidal graphite adamant that offers bigger strength chafe attrition and hardening capabilities to that of 400 15 or 420 12 s g adamant grades

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web the following six grades of spheroidal cast iron for this category are sg 700 2a sg 600 3a sg 500 7a sg 400 15a sg 400 i8a and sg 350 22a 3 2 1 these grades normally apply to castings of thickness between 30 mm and 200 mm and with a unit mass greater than 2 000 kg

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web the normal chemical composition for this grade is as the following c 2 7 3 7 si 0 8 2 9 mn 0 3 0 7 p 0 1 s 0 02 the chemical composition has big difference in different standards all compositions are just for reference

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web sg iron is also called as spheroidal graphite cast iron in usa they are also called as ductile iron there are many different sg iron grades in different countries and standards however most of grades have similar requirements to the mechanical properties especially to tensile strength yield strength and elongation

india is 1865 sg500 7 sg 500 7 datasheet chemical composition - Jul 14 2023

web chemical composition mass fraction wt of the sg 500 7 element min max similar the data is being updated mechanical properties of steel grade sg 500 7 physical properties of steel grade sg 500 7 heat treatment of steel grade sg 500 7 heat treated 1491 c 1214 c technological curves of steel grade sg 500 7 no curve

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web en gjs 500 7 is an sg iron grade containing graphite nodules or spheres spheroidal graphite the rounded graphite nodules produces a more ductile cast iron that inhibits the formation of cracks sg iron such as en gjs 500 7 has a greater fatigue and impact resistance compared to grey iron

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web sg iron 500 7 chemical composition carbon 3 28 3 55 3 44 3 47 silicon 1 87 2 09 2 16 2 14 manganese 0 867 0 477 0 476

0 272 copper 0 456 0 553 0 472 0 557 sulphur 0 0866 0 0116 0 0133 0 00846 phosphorus 0 0472 0 0251 0 0230 0 0232

nickel 0 0986 0 0229 0 0162 0 0199 changes are made only in the major elements of