



F10012

<https://www.steelss.com>

High Quality Special Steel Supplier

+86-13880247006 E-mail:sales@steelss.com

F10012

Used in the products of the automobile, truck, tractor, and allied industries. Diesel engine castings, liners, cylinders, and pistons. F10012 steel chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, We can produce round bars, forged rings, forged cakes, flat bars, tubes, sheets, plates, steel wires, steel strips, steel coils, etc. The size can be customized, the maximum order quantity is 100Kg. It also contains the use of **F10012**,such as it is commonly used in bars, sheet,plates, steel coils, steel pipes,forged and other materials application.

Data Table for Steel Grades Cast Iron and Cast Steel Used in the products of the automobile, truck, tractor, and allied industries. Diesel engine castings, liners, cylinders, and pistons. F10012

F10012 Standard Number		
ITEM	Standard Number	Descriptions
1	ASTM A159-1993	Automotive Gray Iron Castings

F10012 Chemical composition(mass fraction)(wt.%)		
Chemical	Min.(%)	Max.(%)
C	3.10	3.60
Si	1.95	2.40
Mn	0.60	0.90
P		0.10
S		0.15

F10012 Physical Properties		
Tensile strength	115-234	?b/MPa
Yield Strength	23	? 0.2 ?/MPa



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Elongation	65	?5? (%)
?	-	?? (%)
Akv	-	Akv?/J
HBS	123-321	-
HRC	30	-

F10012 Mechanical Properties

Tensile strength	231-231	?b/MPa
Yield Strength	154	? 0.2 ?/MPa
Elongation	56	?5?(%)
?	-	??(%)
Akv	-	Akv?/J
HBS	235-268	-
HRC	30	-

F10012 Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
?	?	?	?	?

F10012 Range of products

Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	?8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting



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Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID- WASHED
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We can produce Cast Iron and Cast Steel the specifications follows: