

PAGATTI

Special steel – heat treatments nad characteristics

Special steel characteristics Chart 1	
Symbol	Explanation
+CH	Core Hardened
+H	Hardened
+Z15	15% average reduction in area at failure
+Z25	25% average reduction in area at failure
+Z35	35% average reduction in area at failure

Note: symbols are separated from preceded symbols by the plus sign (+). These are symbols for special requirements - usually the characteristics of steel. For practical reasons, they are considered as symbols for steel products.

Coating type Chart 2	
Symbol	Explanation
+A	With hot dip aluminium coating
+AR	With aluminium silicon alloy coating
+AS	Al-Si coating
+AZ	Al-Zn coating
+CE	Electrolytic chromium-chromium oxide coating
+CU	Copper coating
+IC	Inorganic coating
+OC	Organic coating
+S	Hot dip tin coating
+SE	Tin coating (electrolytic)
+T	Hot dip lead tin alloy coating
+TE	Lead tin alloy coating (electrolytic)
+Z	Galvanised (hot dip zinc) coating
+ZA	With hot dip zinc aluminum coating, additionally annealed
+ZE	Zinc coating (electrolytic)
+ZF	With hot dip zinc iron coating, additionally annealed
+ZN	Zinc iron coating (electrolytic)

Note: Symbols are separated from preceded symbols by the plus sign (+). With symbols, that could be confused with others, an additional letter "S" is used, ex. +SA

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Special heat treatment Chart 3	
Symbol	Explanation
+A	Soft annealed
+AC	Annealed to achieve spheroidization of the carbides
+AR	As rolled
+AT	Solution annealed
+C	Cold drawn
+Cnnn	Cold drawn to obtain N/mm ²
+CR	Cold rolled
+DC	Delivery condition to manufacturer's discretion
+FP	Treated to ferritic-pearlite structure and hardness
+HC	Hot rolled followed by cold hardening
+I	Isothermal annealing
+LC	Cold drawn/ soft
+M	Thermo mechanical rolling
+N	Normalized
+NT	Normalized and tempered
+P	Precipitation hardened
+Q	Quenched
+QA	Air quenched and tempered
+QO	Liquid (oil) quenched and tempered
+QT	Quenched and tempered
+QW	Water quenched
+RA	Recrystallization annealed
+S	Treated for cold shearing
+SR	Cold drawn and stress relieved
+T	Tempered
+TH	Treated to hardness range
+U	Untreated
+WW	Warm worked

Note: Symbols are separated from preceded symbols by the plus sign (+). nnn=numerical character

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