
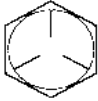





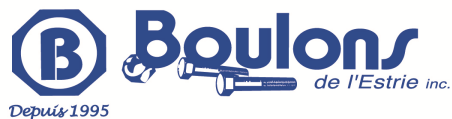


CHARTE DE SPÉCIFICATION BOULONS BOLTS SPECIFICATIONS CHART

| | SPECIFICATION | MATERIAL | MINIMUM TENSILE (PSI) |
|---|-----------------------------------|---|--|
|  | ASTM A307 | C1020 | 60 000 PSI |
| | SAE J-429 GRADE 2 | LOW CARBON STEEL | FROM 1/4" TO 3/4": 74 000 PSI FROM 7/8" TO 1-1/2": 60 000 PSI |
| | | | |
|  | ASTM A449 SAE J-429 GRADE 5 | C1035-1041 MEDIUM CARBON STEEL | UP TO 1" DIA. INCLUDED: 120 000 PSI OVER 1" TO 1 1/2" INCLUDED: 105 000 PSI |
| | | | |
|  | ASTM A490 SAE J-429 GRADE 8 | ALLOY STEEL | FROM 1/4" TO 1 1/2" : 150 000 PSI |
| | | | |
|  | GRADE 12 / L-9 | ALLOY STEEL HEAT TREATED | Minimum Tensile Strength: 180 000 PSI |
| 8,8  | METRIC CLASS 8.8 = GRADE 5 | MEDIUM CARBON STEEL, QUENCHED & TEMPERED | PSI = Ref. Only DIA. M3 TO M16 : 800 N/mm ² (App.116 000 PSI) ABOVE M16 : 830 N/mm ² (App.120 000 PSI) |
| 10,9  | METRIC CLASS 10.9 = GRADE 8 | MEDIUM CARBON STEEL, QUENCHED & TEMPERED | PSI = Ref. Only Tensile Strength 1040 N/mm ² (App. 150 000 PSI) Rockwell Hardness - Min C32 Max C39 |
|  | ASTM A325 (structural ass.) | MEDIUM CARBON STEEL | Minimum Tensile Strength: 120 000 PSI |



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