Low Carbon Steel (Case Hardened)

General Information
Balls of this type are generally used in applications where there are only moderate loads and slow rotating parts. For example, Castors, Conveyors and Non-Precision Bearings. The main feature of this type of ball is the Carburised case with a soft core giving resistance to surface wear.

International Equivalents
AISI 1010, JIS SWRM 12, EN32 ASTM A/29, Wks 1.0010

Composition
C 0.10 - 0.15%  
Mn 0.30 - 0.60%  
P 0.045% Max  
S 0.045% Max  
Si 0.1 - 0.4% Max

Hardness
HRc 60 min

Mechanical Properties
Tensile Strength 53,000 psi  
Yield Strength 44,000 psi  
Density 0.284 lbs/cu.in

Size Range - 1.588mm (1/16”) to 12.700mm (1/2”)

Standard Grades Available
100, 200, 500, 1000

Minimum Case Depth

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<td>1.5mm - 2mm</td>
<td>0.4mm</td>
<td>9.5mm - 11mm</td>
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<td>2.1mm - 3mm</td>
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<td>11.1mm - 12.5mm</td>
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<td>3.1mm - 4.5mm</td>
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<td>12.6mm - 14mm</td>
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<td>4.6mm - 5.5mm</td>
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<td>14.1mm - 19mm</td>
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<td>5.6mm - 6.5mm</td>
<td>0.9mm</td>
<td>19.1mm - 38mm</td>
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<td>6.6mm - 9.5mm</td>
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