MAS400 AR Abrasion Resistant Steel (400 Brinell)

1.High Strength Low Alloy Steel

Abrasion Resistant Steel

MAS300 AR | MAS400 AR | MAS450 AR | MAS500 AR

2.MAS400 AR – Masteel's designation for 400 brinell hardness abrasion resistant steel. As a martensitic hardenable abrasion resistant steel, MAS400 AR can be used in a variety of hard wearing applications where abrasive qualities and resistance to heavy surface pressure are critical.

Typical Applications

Mining industry machinery

Earth moving machinery

Heavy wear platforms

Industrial hoppers, funnels and feeders

3.MAS400 AR is Masteel's designation for abrasion resistant steel with 400 brinell hardness. The actual hardness ranges for this steel relating to particular thicknesses are provided below:

|  |  |  |  |
| --- | --- | --- | --- |
| Grade | Product | Thickness (mm) | Hardness Range (HBW) |
| MAS400 AR | Cut Lengths | 2.5 – 6.4 | 360 – 420 |
| MAS400 AR | Heavy Plates | 5 – 15 | 360 – 420 |
| MAS400 AR | Heavy Plates | 15 – 30 | 360 – 450 |
| MAS400 AR | Heavy Plates | 30 – 60 | 360 – 480 |

MAS400 AR is available in cut lengths of between 2.5 and 6.4mm thick and as heavy plates between 5-60mm thick. Masteel stock and can ship MAS400 AR abrasion resistant steel to customers, worldwide.

5.Chemical Composition

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade | C | Si | Mn | P |
| MAS400 AR | 0.25 | 0.7 | 1.70 | 0.025 |

Content % max unless otherwise stated. Aluminium and can titanium additionally used as a micro-alloy material.

6.Mechanical Properties

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade | Yield StrengthMPa | Tensile StrengthMPa | ElongationA | Impact StrengthCharpy V 20 J |
| MAS400 AR | 1000 | 1250 | 10 | -40°C |

Typical values based on 20mm plate thickness

(Please note: the technical information above is for guidance only – for exact specifications please check with our Sales Team)

7.For information about MAS400 AR abrasion resistant steel or to receive a competitive and detailed quotation please contact us.