MASTERARM 400 Armor Steel Plate

1.High Strength Low Alloy Steel

Armour Plate Steel

MASTERARM 400 | MASTERARM 500

2.MASTERARM 400 – armor steel plate protection against blasts and explosions. MASTERARM 400 is Masteel UK Limited's designation for armor steel plate suitable for high protection against the pressures caused by blasts and explosions.

3.The material benefits from a combination of improved hardness and strength resulting in excellent ballistic properties and is developed exclusively for resistance to high explosives and ordnance. The steel goes through a direct quenching process which not only makes the steel very hard and very strong but also promotes excellent dimensional accuracy and good flatness. Note that the number 400 in the designation denotes the average Brinell Hardness value for this material.

4.Applications :

Military Vehicles & associative equipment

Security vehicles and cars

Walls, doors and window frames

Bank Counters and Bank Vaults

5.Chemical Composition :

|  |  |
| --- | --- |
| Product | Content %, max (cast analysis) |
|   | C | Si | Mn | P | S | Cr | Ni | Mo | B |
| MASTERARM 400 | 0.24 | 0.70 | 1.50 | 0.020 | 0.015 | 1.00 | 1.00 | 0.70 | 0.005 |

6.Mechanical Properties :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Product | Yield Strength | Tensile Strength | Elongation | Hardness | Impact Strength (longitudinal) |
|   | Rp0,2 MPa | Rm MPa | A5 % | HB | t °C | Charpy V J |
| MASTERARM 400 | 1100 | 1300 | 8 | 360–450 | –40 | 30 |

7.MASTERARM 400 is available in heavy plates and cut lengths (sheets) and can be welded using common welding methods. Delivery condition to EN 10 163-2.

To find out more about our armor steel plate, contact us for the latest prices and specifications .