


TECHNICAL GUIDE

I50M19 / EN14A

Steel Description


I50M19 / EN14A is a low carbon manganese steel that is supplied in the hot rolled condition. It is a medium tensile steel that can be welded and has good shock resistance and is used in the manufacture of lifting gear, spindles and welded structures.

| BS970: 1955 | BS970: 1991 | COLOUR CODE | DESCRIPTION |
|-------------|-------------|---|------------------------------|
| EN14A | I50M19 |  | Black carbon manganese steel |

| CHEMICAL ANALYSIS | |
|-------------------|-------------|
| Car | 0.15 / 0.23 |
| Sil | 0.10 / 0.40 |
| Mang | 1.30 / 1.70 |
| Phos | 0.05 max |
| Sul | 0.05 max |

| INTERNATIONAL SPECIFICATION COMPARISON | |
|--|-----------|
| BRITISH BS 970:1991 | I50M19 |
| BRITISH BS 970:1955 | EN14A |
| GERMAN DIN | ST52-3 |
| FRENCH AFNOR | 20M5 |
| SWEDISH SS | 2172 |
| AMERICAN SAE | 1524 |
| EUROPEAN STEEL NO. | 1.1170 |
| EUROPEAN STEEL NAME | 28Mn6 |
| EUROPEAN STANDARD | EN10083-1 |

| QUICK VIEW SYSTEM | |
|------------------------------------|--------------------------|
| MACHINEABILITY | 70 |
| WELDABILITY | Pre-heat for arc welding |
| HARDENABILITY | Poor |
| SELECTION GUIDE AND USAGE EXAMPLES | Bolts, fulcrum shafts |

| SIZE RANGE SUMMARY | | | |
|---|--------|----|------------------|
|  | Rounds | MM | 40mm - 130mm dia |

SEE STOCK RANGE FOR SPECIFIC SIZES.