



ASTM A320 B8M

INTERNATIONAL EQUIVALENT CODES

| Europe |
|-----------------|
| EN 10269 |
| X5CrNiMo17-12-2 |

| Italy |
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| UNI |
| |

| Germany | |
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| DIN | W.n. |
| | 1.4401 |

| UK |
|---------|
| B.S. |
| S316S31 |

| USA | |
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| ASTM | UNS |
| A320 B8M | S31600 |

CHEMICAL REQUIREMENTS (Composition , percent)

| Max C | Mn max | Max Phosph | Max Sulfur | Max Si | Cr | Nickel | Mo | Copper | Niobium | Titanium | Vanadium | Max Al | Max Cobalt | Max Iron |
|-------|--------|------------|------------|--------|-----------|-----------|-----------|--------|---------|----------|----------|--------|------------|----------|
| 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 16.0-19.0 | 10.0-14.0 | 2.00-3.00 | -- | -- | -- | -- | -- | -- | -- |

MECHANICAL REQUIREMENTS

| Tens.strength, min, ksi | Yield Strength, min, 0,2%offset ksi | Elongation 4D, min | Reduction of Area,min,% | Hardness max |
|-------------------------|-------------------------------------|--------------------|-------------------------|-------------------|
| 75 | 30 | 30 | 50 | 223 HBW or 96 HRB |

| Tens.strength, min,Mpa | Yield Strength, min, 0,2%offset MpA | Elongation 4D, min | Reduction of Area,min,% | Hardness max |
|------------------------|-------------------------------------|--------------------|-------------------------|-------------------|
| 515 | 205 | 30 | 50 | 223 HBW or 96 HRB |

