



| Grade | Code | AISI | Hot Work Tool Steel |
|------------|-------------|------|---------------------|
| 1.2343 ESR | X37CrMoV5-1 | H11 | |

Steel Properties

1.2343 ESR is a Chromium-Molybdenum-Vanadium-alloyed hot working tool steel with extra fine structure (EFS), high hot tensile strength and toughness. Good thermal conductivity and insusceptibility to hot cracking. Can be water-cooled to a limited extent. Excellent polishability.

Chemical Composition (1.2343 ESR)

| C % | Si % | Mn % | Cr % | Mo % | Ni % | V % | W % | Co % | Sonst. |
|------|------|------|------|------|------|------|-----|------|--------|
| 0,37 | 1,00 | 0,40 | 5,20 | 1,30 | - | 0,40 | - | - | - |

Suitable for

1.2343 ESR is used on dies and die inserts, tools for forging machines, pressure casting dies for light metals, highly stressed tools for extrusion of light metals such as liners, dies, punches. 1.2343 ESR is also used on hot extrusion tools, forging dies, casting- and pressure tools, ejector pins, hot shear knives, tool holders and shrink fit chucks.

Remarks

1.2343 has in comparison a higher toughness than 1.2344. For requirements concerning cleanness, better homogeneity and toughness we recommend the use of 1.2343 ESR. Preheating before use: 250 - 300 °C – is recommended.

Specification

1.2343 ESR, X37CrMoV5-1, H11