GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - SAE J 1249 Grade 3145

## Standard Specification for Chemical Compositions of SAE Experimental Steels

**Group - Ferrous Mild Steel Alloys**

**Sub Group - SAE J 1249 Grade 3145 Chemical Compositions of SAE Experimental Steels**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Steel**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.430 - 0.480 |
| Manganese | Mn % | 0.700 - 0.900 |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.040 max. |
| Silicon | Si % | 0.200 - 0.350 |
| Chromium | Cr % | 0.700 - 0.900 |
| Nickel | Ni % | 1.100 - 1.400 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | - |
| Yield Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HV | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| SAE J 1249 3145 | AISI | USA | Steel |
| SAE J 1249 3140 | AISI | USA | Steel |
| 1444 3140 | AS | Australia | Steel |
| 40 NiCr 6 | DIN | Germany | Steel |
| 4543 40ChN | GOST | Russia | Steel |
| A 519 3140 | ASTM | USA | Steel and Tubing |
| J 1249 X3140 | SAE | USA | Steel |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com**

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