

# Material-ASTMA128Grade D

## StandardSpecificationforSteelCastings,AusteniticManganese

Group-Ferrous AusteniticManganeseSteelAlloy

SubGroup-ASTMA128/A128MSteelCastings,AusteniticManganese

Application - Intendedfor Valve, Pump, General Engineering,Automotive and Other Industries Grade

Belongs to the Industry - Casting

| ChemicalComposition |      |                | Heat Treatment                              |   |
|---------------------|------|----------------|---|---|
| Carbon              | C %  | 0.700- 1.300   | NormalisingorAnnealingorHardening+Tempering |   |
| Silicon             | Si % | 1.000 max.     |   |   |
| Manganese           | Mn % | 11.500- 14.000 |   |   |
| Phosphorus          | P%   | 0.070 max.     |   |   |
| Nickel              | Ni%  | 3.000 - 4.000  |   |   |
| Iron                | Fe%  | Balance        |   |   |
| -                   | -    | -              |   |   |
| -                   | -    | -              |   |   |
| -                   | -    | -              |   |   |
| -                   | -    | -              |   |   |
|                     |      |                | Mechanical Properties                       |   |
|                     |      |                | TensileStrengthinMpa                        | - |
|                     |      |                | YieldStrengthinMpa                          | - |
|                     |      |                | Elongationin%                               | - |
|                     |      |                | Reductionof Areain %                        | - |
|                     |      |                | HardnessinBHN                               | - |
|                     |      |                | Impactin Joule                              | - |

| CrossReference Table |          |         |                          |
|----------------------|----------|---------|--------------------------|
| Material             | Standard | Country | GradeBelongtotheIndustry |
| J91459               | UNS      | USA     | Casting                  |
| T 100 NiMn130        | STAS     | Romania | Casting                  |
| A131Grade D          | ASTM     | USA     | Casting                  |
| GX100MnNi12-3        | AFNORNF  | France  | Casting                  |
| ClassD               | NMX      | Maxico  | Casting                  |
| -                    | -        | -       | -                        |
| -                    | -        | -       | -                        |

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**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)

+91-99090 45075

[info@icastllp.com](mailto:info@icastllp.com)

ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India