



318LN / 1.4462

The stainless austenitic special steel 1.4462 has good resistance to pitting. Depending on the requirements and conditions, it is used in chemical equipment, pulp and food industries as well as for sea water piping systems.

Gehe zu



Material Data Sheet

| | |
|----------------------|---|
| Material Designation | 1.4462 |
| ISI/SAE | 318 LN |
| EN Material Symbol | X2CrNiMoN22-5-3 |
| UNS | S 31803 |
| AFNOR | Z 2 CND 22-05 Az |
| B.S. | 318 S 13 |
| Norm | VdTUEV – Material Data Sheet 418, SEW 400/310 |

Main fields of application of 1.4462

1.4462 is used mainly in sector of chemical industry, petrochemical industry, offshore, sea water lines, sea water desalination plants, nuclear engineering, paper and pulp industry.

Chemical composition of 1.4462

| C | Si | Mn | P | S | Cr | Ni | N | Cu |
|------|-----|-----|-------|-------|-----------|---------|----------|------|
| ≤ % | ≤ % | ≤ % | ≤ % | ≤ % | % | % | ≤ % | ≤ % |
| 0.03 | 1,0 | 2,0 | 0,035 | 0,015 | 21,0-23,0 | 2,5-3,5 | 0,1-0,22 | 0.11 |

Characteristics of 1.4462

| | | |
|------------------------------|------------------------------|----------------|
| Temperature Range: | Density kg/dm ³ : | Hardness HB 30 |
| 10°C – 280°C | 7,9 | ≤ 270 |
| Tends to 475°C embrittlement | | |

Delivery program

| Sheets / Plates mm | | | |
|--------------------|-------------------|-----------------------|------------|
| Thickness | kg/m ² | Finish | Dimensions |
| 2.00 | 16 | CR | On request |
| 3.00 | 24 | CR | |
| 4.00 | 32 | CR | |
| 5.00 | 40 | HR | |
| 6.00 | 48 | HR | |
| 8.00 | 64 | HR | |
| 10.00 | 80 | HR | |
| 12.00 | 96 | HR | |
| 15.00 | 120 | HR | |
| Finish | | | |
| CR | Cold rolled | finish not fixed (2E) | |
| HR | Hot rolled | finish not fixed (1D) | |

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

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