

DIN17165 HII steel plate/sheet for Boilers and Pressure Vessels

Key words :

HII steel plate/sheet, DIN17165 HII steel plate/sheet, DIN17165 HII steel plate/sheet for Boilers and Pressure Vessel steel, HII steel plate/sheet for Boilers and Pressure Vessel, DIN17165 steel plate for Boilers and Pressure Vessel using, HII steel supplier/Chinese supplier, HII steel price...

Equivalent grade :

HII steel plate/sheet is in DIN17165 standard. The equal material of HII steel is:EN 10028-2 P265GH, NFA 36-205 A42CP, UNI 5869 Fe 410-1KW, BS 1501 161 Gr.400/164 Gr.400/224 Gr. 400, UNE 36087 A 42 RCI, ASTM A414 Gr. E / A 516 Gr. 60

Comparison of steel grades

| HII DIN 17165 | EN 10028-2 | P265GH |
|------------------|------------|-----------------------------------|
| | NFA 36-205 | A 42 CP |
| | UNI 5869 | Fe 410-1KW |
| | BS 1501 | 161 Gr.400/164 Gr.400/224 Gr. 400 |
| | UNE 36087 | A 42 RCI |
| | ASTM | A 414 Gr. E / A 516 Gr. 60 |
| | JIS G3115 | - |

DIN17165 HII steel Chemical Composition % :

Main chemical composition in DIN17165 HII steel: Carbon Max 0.20, Manganese from 0.80 to 1.40, Sulphur max 0.015, Phosphorus max 0.025, Silicon max 0.40, More detailed information, please refer to the flowing table:

| Grade | C. % | Mn. % | S. max | N | Cu | Nb | Ti. max | Si. max | P. max | AL. | Cr. | Mo. | Ni. | Vi |
|-------|-------|-----------|--------|--------|-------|--------|---------|---------|--------|-------|-------|-------|-------|-------|
| HII | ≤0.20 | 0.80-1.40 | 0.015 | ≤0.012 | ≤0.30 | ≤0.020 | 0.03 | ≤0.40 | 0.025 | ≤ | ≤0.30 | ≤0.08 | ≤0.30 | ≤0.02 |
| | | | | | | | | | | 0.020 | | | | |

DIN17165 HII steel Mechanical Properties

HII this material is mainly used to fabricate boiler and pressure vessel. So ,same the other boiler and pressure vessel using steel plate, this kind of steel has the good grain and Mechanical properties. It's yield strength is between 185 - 265 MPa (there is different min strength point at the different thickness.) HII tensile strength is from 390MPa to 530MPa. (different min strength point at the different thickness.) More detailed information about DIN17165 HII steel Mechanical Properties , please refer to the following table:

| Grade | Type | Thickness mm | Yield strength Mpa(min) | Tensile Strength MPa | Elongation % (min) | Impact Energy (KVJ) (min) | | |
|------------|------------|--------------|-------------------------|----------------------|--------------------|---------------------------|----|-----|
| | | | | | | -20° | 0° | +20 |
| HII | Normalized | ≤16 | 265 | 410-530 | 22 | 27 | 34 | 40 |
| | | 16>to≤40 | | | | | | |
| | | 40>to≤60 | 255 | 410-530 | 22 | 27 | 34 | 40 |
| | | 60>to≤100 | | | | | | |
| 100>to≤150 | 245 | 410-530 | 22 | 27 | 34 | 40 | | |

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| | | | | | | |
|------------|-----|---------|----|----|----|----|
| 150>to≤250 | 215 | 410-530 | 22 | 27 | 34 | 40 |
| | 200 | 400-530 | 22 | 27 | 34 | 40 |
| | 185 | 390-530 | 22 | 27 | 34 | 40 |

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