

SEW092 QStE550TM steel plate/sheet High yield strength for cold forming steels

SEW092 QStE550TM steel plate/sheet, SEW092 QStE550TM steel plate/sheet, under DIN standard, we can regard QStE550TM steel plate/sheet as high yield strength steels for cold-forming steels.

SEW092 QStE550TM is mainly used as high yield strength steels for cold-forming steels. The SEW092 QStE550TM steel is equivalent to EN S550MC, NFA E560D, UNI FeE560TM, BS 60F45/60F55 and ASTM X80XLK steel grades.

| QStE550TM SEW092 Number:1.0986 | Comparision of steel grades | |
|--------------------------------------|-----------------------------|-------------|
| | EN 10149-2 | S550MC |
| | NFA36-231 | E560D |
| | UNI8890 | FeE560TM |
| | ASTM | 080XLK |
| | BS1449 | 60F45/60F55 |

Chemical Composition of QStE550TM steel, by %

| Grade | C max | Si max | Mn max | P max | S max | AL max | Nb max | V max | Ti max |
|-----------|-------|--------|--------|-------|-------|--------|--------|-------|--------|
| QStE550TM | 0.12 | 0.50 | 1.8 | 0.025 | 0.015 | 0.015 | 0.09 | 0.2 | 0.15 |

Mechanical Properties of QStE550TM steel

| | |
|---------------------------------|-----|
| Nominal thickness(mm) | - |
| ReH-Minimum yield strength(Mpa) | 550 |

| | |
|--------------------------|---------|
| Nominal thickness(mm) | - |
| Rm-Tensile strength(Mpa) | 600-760 |

| | |
|------------------------------------|-------|
| Nominal thickness(mm) | From3 |
| A-Minimum elongation Lo=5,65√So(%) | 14 |

| | |
|------------------------------------|-----|
| Nominal thickness(mm) | to3 |
| A-Minimum elongation Lo=Lo=80mm(%) | 12 |

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