

**This page is mainly introduced the AM-350 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of AM-350, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades Specialsteel AM-350

### AM-350 Standard Number:

| ITEM | Standard Number      | Descriptions   |
|------|----------------------|--|
| 1    | SAE AMS 5548P (2007) | Steel, Corrosion and Heat-Resistant, Sheet and Strip 16.5Cr - 4.5Ni - 2.9Mo - 0.10N 1850 to 1975 °F (1010 to 1079 °C) Annealed |

### AM-350 Chemical composition (mass fraction) (wt.%)

| Chemical | Min.(%) |    | Max.(%)   |    |    |    |    |    |       |
|----------|---------|----|-----------|----|----|----|----|----|-------|
| C        |         |    | 0.10      |    |    |    |    |    |       |
| Si       |         |    | 0.40      |    |    |    |    |    |       |
| Mn       |         |    | 1.00      |    |    |    |    |    |       |
| P        |         |    |           |    |    |    |    |    |       |
| S        |         |    |           |    |    |    |    |    |       |
| Ni       |         |    | 4.25      |    |    |    |    |    |       |
| Cr       |         |    | 16.50     |    |    |    |    |    |       |
| Al       |         |    |           |    |    |    |    |    |       |
| Cu       |         |    |           |    |    |    |    |    |       |
| Ti       |         |    |           |    |    |    |    |    |       |
| Fe       |         |    | remaining |    |    |    |    |    |       |
| Mo       |         |    | 2.75      |    |    |    |    |    |       |
| N        |         |    | 0.10      |    |    |    |    |    |       |
| Co       |         |    |           |    |    |    |    |    |       |
| C        | Si      | Mn | P         | S  | Cr | Ni | Mo | V  | Ta    |
| W        | N       | Cu | Co        | Pb | B  | Nb | Al | Ti | Other |
|          |         |    |           |    |    |    |    |    |       |

Steel, Corrosion and Heat-Resistant, Sheet and Strip 16.5Cr - 4.5Ni - 2.9Mo - 0.10N 1850 to 1975

°F (1010 to 1079 °C) Annealed

### AM-350 Physical Properties

|                  |         |                          |
|------------------|---------|--------------------------|
| Tensile strength | 115-234 | $\sigma_b$ /MPa          |
| Yield Strength   | 23      | $\sigma_{0.2} \geq$ /MPa |
| Elongation       | 65      | $\delta_5 \geq$ (%)      |
| $\psi$           | -       | $\psi \geq$ (%)          |
| Akv              | -       | Akv $\geq$ /J            |
| HBS              | 123-321 | -                        |
| HRC              | 30      | -                        |

### AM-350 Mechanical Properties

|                  |         |                          |
|------------------|---------|--------------------------|
| Tensile strength | 231-231 | $\sigma_b$ /MPa          |
| Yield Strength   | 154     | $\sigma_{0.2} \geq$ /MPa |
| Elongation       | 56      | $\delta_5 \geq$ (%)      |
| $\psi$           | -       | $\psi \geq$ (%)          |
| Akv              | -       | Akv $\geq$ /J            |
| HBS              | 235-268 | -                        |
| HRC              | 30      | -                        |

### AM-350 Heat Treatment Regime

| Annealing | Quenching | Tempering | Normalizing | Q & T |
|-----------|-----------|-----------|-------------|-------|
| √         | √         | √         | √           | √     |

| AM-350 Range of products |  |                            |   |   |
|--------------------------|--|----------------------------|---|---|
| Product type             | Products                                 | Dimension                  | Processes                                   | Deliver Status  |
| Plates / Sheets          | Plates / Sheets                          | 0.08-200mm(T)*W*L          | Forging, hot rolling and cold rolling       | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Steel Bar                | Round Bar, Flat Bar, Square Bar          | Φ8-1200mm*L                | Forging, hot rolling and cold rolling, Cast | Black, Rough Turning, Shot Blasting,                          |
| Coil / Strip             | Steel Coil /Steel Strip                  | 0.03-16.0x1200mm           | Cold-Rolled & Hot-Rolled                    | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Pipes / Tubes            | Seamless Pipes/Tubes, Welded Pipes/Tubes | OD:6-219mm x WT:0.5-20.0mm | Hot extrusion, Cold Drawn, Welded           | Annealed, Solution and Aging, Q+T, ACID-WASHED                |

**We can produce Specialsteel the specifications follows:**