

**This page is mainly introduced the A 29 4626 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of A 29 4626, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades Specialsteel A 29 4626

### A 29 4626 Standard Number:

| ITEM | Standard Number   | Descriptions  |
|------|-------------------|---|
| 1    | A 29/A 29M (2012) | Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for |

### A 29 4626 Chemical composition (mass fraction) (wt.%)

| Chemical | Min.(%) | Max.(%) |    |    |    |    |    |    |       |
|----------|---------|---------|----|----|----|----|----|----|-------|
| C        |         | 0.01    |    |    |    |    |    |    |       |
| Si       |         | 0.20    |    |    |    |    |    |    |       |
| Mn       |         | 0.30    |    |    |    |    |    |    |       |
| P        |         |         |    |    |    |    |    |    |       |
| S        |         |         |    |    |    |    |    |    |       |
| Ni       |         | 0.15    |    |    |    |    |    |    |       |
| Cr       | 28.00   | 30.00   |    |    |    |    |    |    |       |
| Al       |         |         |    |    |    |    |    |    |       |
| Cu       |         | 0.15    |    |    |    |    |    |    |       |
| Ti       |         |         |    |    |    |    |    |    |       |
| Fe       |         |         |    |    |    |    |    |    |       |
| N        |         | 0.02    |    |    |    |    |    |    |       |
| Mo       | 3.50    | 4.20    |    |    |    |    |    |    |       |
| C        | Si      | Mn      | P  | S  | Cr | Ni | Mo | V  | Ta    |
| W        | N       | Cu      | Co | Pb | B  | Nb | Al | Ti | Other |
|          |         |         |    |    |    |    |    |    |       |

Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for

### A 29 4626 Physical Properties

| A 29 4626 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      | -                        |

### A 29 4626 Mechanical Properties

| A 29 4626 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      | -                        |

### A 29 4626 Heat Treatment Regime

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

### A 29 4626 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, | $\Phi 8$ -1200mm*L | Forging, hot rolling and              | Black, Rough Turning,   |

|               |  |                            |                                   |   |
|---------------|--|----------------------------|-----------------------------------|---|
|               | Square Bar                               |                            | cold rolling, Cast                | 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:**