

JIS G3114 SMA 50 AW; SMA 50 AW steel; SMA 50 AW steel plate; SMA 50 AW steel grade; SMA 50 AW steel supplier

SMA 50 AW steel description

SMA 50 AW steel is a structural weathering steel which is also referred to as atmospheric corrosion resistant steel. SMA 50 AW steel chemical composition can increase resistance to atmospheric corrosion compared to other steels. This is because it forms a protective layer on SMA 50 AW steel surface under the influence of the weather, So which could more accurately be termed as an "Atmospheric Corrosion Resistant Steel".

SMA 50 AW steel Deliver condition

Hot Rolled, Cold Rolled, Normalized, Quenched, Tempering, Thermal Mechanical Control Process (TMCP), Electroslag Remelting Technical, HIC test.

SMA 50 AW steel Application range

Due to the super property, SMA 50 AW steel has a widely use in Mine fans, earth moving buckets, trailers and large road vehicles, drill rings, cranes, excavators, underground mining equipment, bridges and other high strength components requiring superior toughness.

SMA 50 AW steel Chemical composition (%)

| C        | Si      | Mn           | P            | S         | Cr           | N         | Cu        | CEV      |
|----------|---------|--------------|--------------|-----------|--------------|-----------|-----------|----------|
| Max 0.16 | Max 0.5 | 0.5 -<br>1.5 | Max<br>0.035 | Max 0.035 | 0.4 -<br>0.8 | Max 0.009 | 0.25-0.55 | Max 0.52 |

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## Note:

1. The steels may show a Ni content of max 0.65 %;
2. For long SMA 50 AW steel, the **P** and **S** content can be 0.005% higher;
3. The SMA 50 AW steel may contain max. 0.30 % Mo and max. 0.15 % Zr
4. It is permissible to exceed the specified values provided that for each increase of 0.001 % N, the P max. content will be reduced by 0.005 %; the N content of the ladle analysis, however, shall not be more than 0.012 %
5. The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020 % or if sufficient other N binding elements are present.

## SMA 50 AW steel Mechanical property

|  |         |       |         |       |         |         |
|--|---------|-------|---------|-------|---------|---------|
| Nominal thickness (mm)                             | to 16   | 16-40 | 40-63   | 63-80 | 80-100  | 100-150 |
| ReH - Minimum yield strength (MPa)                 | 355     | 345   | 335     | 325   | 315     | 295     |
| Nominal thickness (mm)                             | To 3    |       | 3-100   |       | 100-150 |         |
| Rm -Tensile strength (MPa)                         | 510-680 |       | 470-630 |       | 450-600 |         |
| Nominal thickness (mm)                             | 3-40    |       | 40-63   |       | 63-100  | 100-150 |
| A - Minimum elongation $L_0 = 5,65 \sqrt{S_0}$ (%) | 22      |       | 21      |       | 20      | 18      |
| Nominal thickness (mm)                             | 1.5 - 2 |       | 2-2.5   |       | 2.5-3   |         |

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|   |     |    |    |
|---|-----|----|----|
|   |     |    |    |
| A - Minimum elongation Lo = Lo =<br>80 mm (%) | 16  | 17 | 18 |
| Temperature                                   | -20 |    | 0  |
| Notch impact test. Min. absorbed<br>energy    | 27  |    | 27 |

Henan BEBON international is an outstanding exporter and stockist in china, especially in Atmospheric Corrosion Resistant Steel, also named weathering steel. As our have a good relationship with per big steel mill, so we have SMA 50 AW steel more than 10000 tons in stock. If you any need about SMA 50 AW steel, whatever the specification, we also can meet your maximum request. More technology information, welcome to freely contact BEBON sales-team.

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