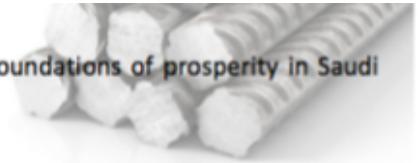


## Specifications

### REBAR STEEL GR 60

REINFORCING BARS steel strengthens structures and reinforces the foundations of prosperity in Saudi Arabia and the region.



#### Mechanical Properties of Steel Rebars

| Standard                     | Grade             | Nominal        | Yield             | Tensile               | Tensile         | Elongation | Elongation | Agt % |
|------------------------------|-------------------|----------------|-------------------|-----------------------|-----------------|------------|------------|-------|
| Diameter mm                  | Strength MP(min.) |                | Strength MP(min.) | To Yield Ratio (min.) | In 200mm (min.) | (A5)(min.) | (min.)     |       |
|                              | 520(75)           | 12-25-32-40    | 520               | 690                   | N/A             | 7-6        | N/A        | N/A   |
| SASO ASMT A706 M             | 420(60)           | 12-20-25-36-40 | 420-540           | 550                   | 1.25            | 14-12-10   | N/A        | N/A   |
| BS 4449                      | 460B              | 12-40          | 460               | N/A                   | 1.08            | N/A        | 14         | 5     |
|                              | B500B             | 12-32          | 500               | N/A                   | 1.08            | N/A        | N/A        | 5     |
| GCC Standard GS06/ISO 6935-2 | B400BR<br>B400BWR | 12-40          | 400               | N/A                   | 1.08            | N/A        | 14         | 5     |
|                              | B500BR<br>B500BWR | 12-32          | 500               | N/A                   | 1.08            | N/A        | 14         | 5     |

#### Chemical Composition of Rebars

| Standard                     | Grade                  | Chemical Composition % (maximum) |      |      |       |       |       |      |       |
|------------------------------|------------------------|----------------------------------|------|------|-------|-------|-------|------|-------|
|                              |                        | C                                | Si   | Mn   | S     | P     | N     | Cu   | C.E.V |
| SASO ASMT A6015              | 280/420/520 (40/60/75) | ...                              | ...  | ...  | ...   | 0.06  | ...   | ...  | ...   |
| SASO ASMT A706M              | 420(60)                | 0.3                              | 0.50 | 1.5  | 0.045 | 0.035 | ...   | ...  | ...   |
| BS 4449                      | 460(B)                 | 0.25                             | ...  | ...  | 0.05  | 0.05  | 0.012 | ...  | 0.51  |
|                              | B500B                  | 0.22                             | ...  | ...  | 0.05  | 0.05  | ...   | 0.80 | 0.50  |
| GCC STANDARD GS06/ISO 6935-2 | B400BR                 | ...                              | ...  | ...  | 0.06  | ...   | ...   | ...  | ...   |
|                              | B400BWR                | 0.22                             | 0.60 | 1.60 | 0.05  | 0.012 | ...   | ...  | 0.50  |

#### NOTE :

1. Other elements like, Ni, Cr, Mo, V, Nb, Ti...etc. may be added if required.
2. Higher nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.
3. Product analysis may differ. Standard tolerances will apply.

