



# CEMENTING PLUG

Reduce Drill Time and Save Costs

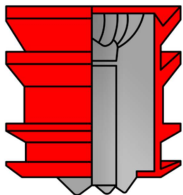
Cementing plugs are used to remove the mud during cementing operations. Top cementing plugs and bottom cementing plugs are used in the cementing process. The top and bottom cementing plus general have different colors (bottom plugs are red and top plugs are black) in production for easy usage in operation.

The top cementing plug has a solid body that provides positive indication of contact with cementing floating collar and bottom plug through an increase in pump pressure.

The bottom cementing plug with a hollow body is installed ahead of the cement slurry to minimize contamination by fluids inside the casing prior to cementing.



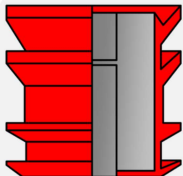
Non-rotational Top Plug



Non-rotational Bottom Plug



Conventional/Standard Top Plug



Conventional/Standard Bottom Plug

## Categories ▼

### Conventional/Standard Cementing Plug

Conventional top and bottom cementing plugs significantly reduce the drill out time to save cost. The bottom plug separates the cement from drill mud and features a rubber diaphragm which is opened once the plug has landed and latched into the conventional cementing float collar.

The top cementing plug is used as a flow-up plug to displace cement to provide a anti-rotational feature to eliminate rotation during drilling and save drill out time when it is latched into the upper end of the bottom plug.

#### Performance features

- › Aim to reduce the drill out time and save cost.
- › Top plugs are used as a flow plug to displace the cement and land on the upper end of the bottom plug.
- › The body consists of ebonite inserted molded with elastomer, which is easy to fracture than the rubber and aluminum structure, thus reducing the drill out time significantly.
- › No metal parts are used therefore the plugs are PDC drillable.

#### Options

- › Available in sizes from 4-1/2" to 20"
- › Available in NR, SBR, NBR and HNBR grades.

### Non-Rotational Plug

Non-rotating cementing plugs are designed to decrease the drill out times. Reinforced locking teeth are built into the plugs, which lock together between the plug and the float equipment to eliminate rotation of the plug during drill out. The top cementing plug are latched to the anti-rotational float collar.

#### Performance features

- › Non-rotational.
- › Decrease drill out time.
- › PDC drillable.

#### Options

- › Available in sizes from 4-1/2" to 20"
- › Available in NR, SBR, NBR and HNBR grades.

## Specifications ▼

| Casing size | Casing weight range |              | O.D. of Rubber Cup |        | Working Temperature | Working Pressure | Burst Pressure | Hardness |
|-------------|---------------------|--------------|--------------------|--------|---------------------|------------------|----------------|----------|
|             | inch                | kg/m         | lb/ft              | mm     |                     |                  |                |          |
| 4-1/2       | 14.14–17.26         | 9.50–11.60   | 110                | 4.331  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 5           | 17.11–35.86         | 11.50–24.10  | 122                | 4.803  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 5-1/2       | 20.83–39.88         | 14.00–26.80  | 135                | 5.315  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 7           | 25.30–56.55         | 17.00–38.00  | 170                | 6.693  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 7-5/8       | 35.72–63.69         | 24.00–42.80  | 185                | 7.283  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 9-5/8       | 53.57–79.62         | 36.00–53.50  | 235                | 9.252  | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 10-3/4      | 60.27–97.77         | 40.50–65.70  | 260                | 10.236 | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 13-3/8      | 71.43–107.15        | 48.00–72.00  | 333                | 13.110 | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |
| 20          | 139.89–197.93       | 94.00–133.00 | 498                | 19.606 | -30 °C to 150 °C    | ≥15              | 1–2            | 75–95    |



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