

**DESCRIPTION** PROCAP BR is an encapsulated oxidizing breaker used in hydraulic fracturing applications. The sodium bromate contained in the product slowly releases from PROCAP BR which will delay the break of the fracturing fluid, allowing for increased breaker concentrations in the fluid compared to conventional sodium bromate. The delay in the release from this product will allow the breaker to be concentrated in the fracture rather than leaking off into the formation with the leak off water. With the increased breaker loadings and the concentration of the breaker in the fracture, an improvement in the conductivity of the created fracture will result. This product can be used in applications that would use sodium bromate as the breaker rather than persulfate breakers.

- ADVANTAGES**
- Release of sodium bromate from PROCAP BR is controlled over time.
  - Increased concentrations of active breaker can be added without compromising fluid stability when PROCAP BR is employed.
  - The sodium bromate that has not released from PROCAP BR upon fracture closure will concentrate in the fracture rather than be lost to the formation in the leak off water.
  - The addition of PROCAP BR to the fluid will result in improved proppant pack clean up which will lead to improved fracture conductivity.

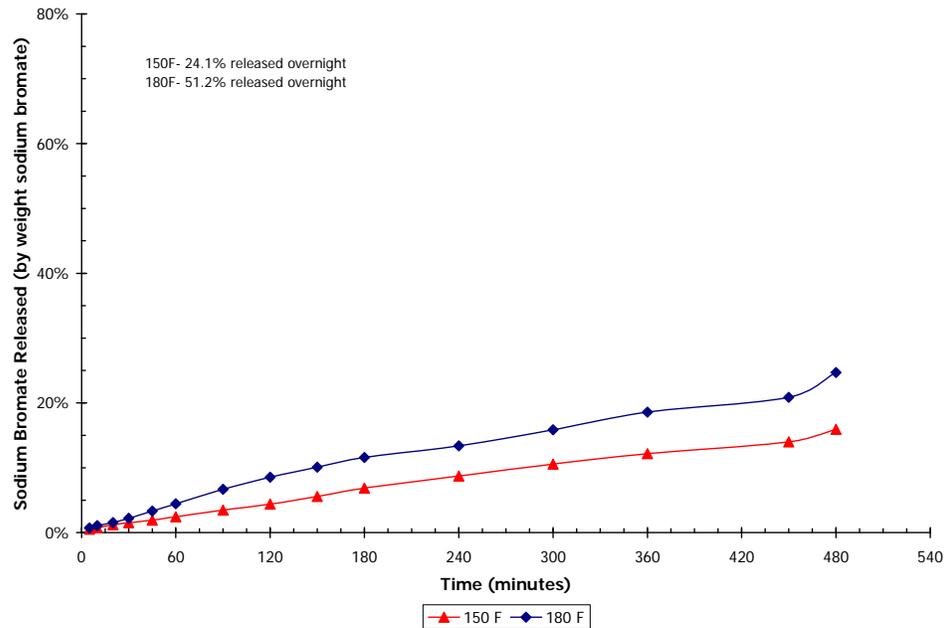
- APPLICATION**
- PROCAP BR can be substituted into fracturing fluids that use conventional sodium bromate as a breaker.
  - PROCAP BR is added to the fluid using a dry additive feeder.

**PROPERTIES**

Form	White to off white granules
Activity	76 – 82 % by weight
Specific gravity	3.50
Bulk Density	95 - 103 lb/ft <sup>3</sup>
Water solubility	partial
Packaging	50 lbs in a five gallon plastic pail
Data	Figure 1 Release of PROCAP BR at 150 and 180 °F

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**FIGURE 1**



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