



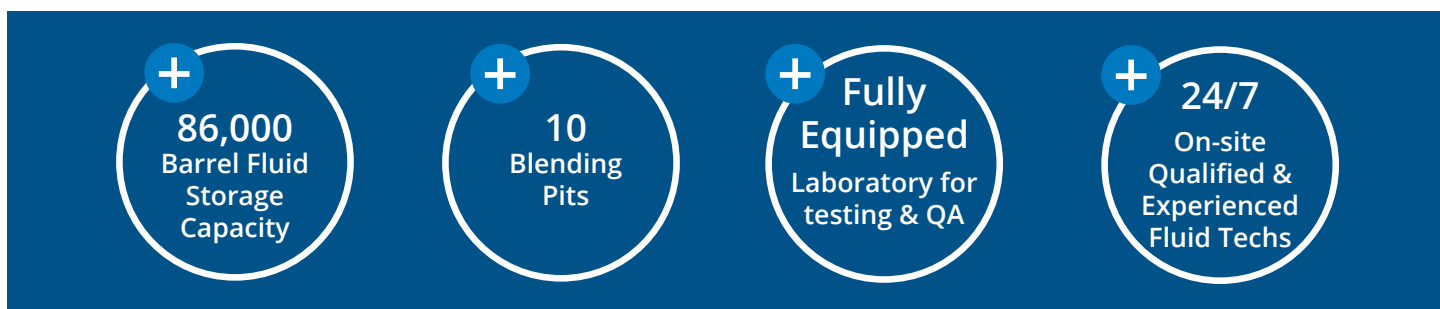
Fluids Plant — Niterói, Brazil

Viana Island, Guanabara Bay
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GENERAL DESCRIPTION

The TETRA facility in Niterói, Brazil, is a full-service fluids plant serving deepwater and ultra-deepwater operations in the Santos and Campos Basins of the South Atlantic Ocean. The facility provides the full line of TETRA fluids, including clear-brine and zinc-free/formate-free fluids, as well as chemical additives, fluid engineering, fluid testing, fluid blending, fluid filtration, and fluid and chemical storage. It is the Company's largest facility serving the South Atlantic and the only one that provides the highly regarded suite of TETRA CS Neptune completion fluids.

KEY FACTS



PRODUCTS & SERVICES

- » Completion and drilling fluids, including clear-brine fluids (CBF) with calcium bromide, calcium chloride, or sodium chloride
- » TETRA CS Neptune zinc-free, formate-free fluids
- » Chemical additives
- » Fluid engineering and laboratory testing
- » Fluid blending
- » Fluid filtration
- » Fluid and solids pumping
- » Bulk solids storage and handling, including barite, bentonite, and limestone
- » Simultaneous loading and unloading of vessels, trucks, and tanks
- » Expert fluid technicians, available 24/7

CAPACITIES

- » A fully equipped laboratory for testing and quality assurance of all products
- » 86,000-barrel fluid storage capacity
- » 10 blending pits
 - » 2 300-barrel mixing pits for divalent brines
 - » 2 220-barrel mixing pits for monovalent brines
 - » 2 250-barrel mixing pits for drilling fluids
 - » 2 500-barrel mixing pits for drilling fluids
 - » 2 500-barrel mixing pits for monovalent brines
- » 161 m³ (1,730 ft³) of solids storage silo capacity
- » 22.8 m³ (245 ft³) of solids silo capacity
- » 3,000 m³ (32,292 ft³) of warehouse space
- » 3 forklifts, each capable of lifting 2.5 tons
- » 2 air compressors with 116 PSI and 1,274 m³/hour (13,713 ft³/h) of flow capacity
- » 1 reverse-osmosis water plant, enabling autonomous water production for the manufacture of monovalent brines
- » 5 marine vessel berths, each with 8 meters of draft