

- DESCRIPTION** Fritz FL-20 is a synthetic polymer used to control the loss of filtrate from water-based drilling fluids in high temperature applications. FL-20 displays exceptional performance in fresh, salt and KCl water-based fluids.
- ADVANTAGES**
- FL-20 provides exceptional filtrate control at temperatures up to 500°F (260 C).
  - FL-20 eliminates the need for oil-based or synthetic fluids at high temperatures, thereby reducing the cost of the drilling fluid and altering the procedure for cuttings disposal.
- APPLICATION**
- FL-20 has a viscosifying effect on water-based fluids.
  - It is ideally suited for most high temperature water-based fluid applications.
  - FL-20 should interact well with all other additives.
- PROPERTIES**
- Off-White Powder
  - Specific Gravity – 1.39
  - Activity – 100%
  - pH – neutral
  - Packaged in 50 lb. bags
  - Loading Rate – 2 to 12 lb./bbl
  - See Fluid Loss and Rheology Data

The information contained herein is based on data considered accurate with representative samples. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. The above data does not imply specifications for this product. Fritz Industries, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties, caused by the material. Such vendees or users assume all risks associated with the use of the material. Consult the Material Safety Data Sheet before using this product.

**FL-20**

Water, bbl	0.84	0.72
Sepiolite, lb.	4	4
Bentonite, lb.	8	2
Thinner, lb.	2.5	2.5
CMC, lb.	0	0.25
ASTM sea salt, lb.	14.7	0
NaOH, lb.	3	0.5
Barite, lb.	250	350
Simulated drill solids, lb.	20	15
<b>FL-20, lb.</b>	<b>10</b>	<b>8</b>

Properties after:	Hot rolled 16 hr. @ 150°F	Static Aged 16 hr. @ 460°F	Hot rolled 16 hr. @ 150°F	After 16 hr. aging @ 450°F
Temperature, °F	120	120	120	120
600 rpm reading	128	108	215	153
300 rpm reading	81	70	123	96
200 rpm reading	64	54	87	73
100 rpm reading	43	38	51	47
6 rpm reading	22	20	6	14
3 rpm reading	22	20	4	14
Plastic Viscosity, cP	47	38	92	57
Yeild Point, lb./100 ft. <sup>2</sup>	34	32	31	39
10 sec. gel, lb./100 ft. <sup>2</sup>	24	16	4	9
10 min. gel, lb./100 ft. <sup>2</sup>	66	60	6	47
HTHP, 400°F, 500 psi, ml	<b>31</b>	<b>20</b>	---	<b>36.4</b>

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