



P-WAH **CEMENTING SERVICE BULLETIN**

PAGE: 1 of 2

11/29/91

P-WAH (PETROCHEM-WEIGHTING AGENT HEMATITE)

TECHNICAL DATA

P-WAH is widely used in oil well cementing to produce slurries weighing as much as 20 lb/gal. It is a reddish brown, naturally occurring mineral. P-WAH has no significant effect on thickening time nor compressive strength. This mineral is used in high-density slurries for several reasons:

1) The prevention of blowouts or gas cutting in high abnormally pressured formations. 2) To displace the drilling fluid in a more effective manner.

Due to the fact that P-WAH increases slurry viscosity, it is frequently necessary to use a dispersant (P-DIS and P-DISL). However, laboratory testing is necessary for all weighted slurries as the P-WAH could settle out of the slurry. This occurs because dispersant could cause the slurry to be too thin thus making it unable to suspend the P-WAH particles.

PHYSICAL PROPERTIES:

<u>PETROCHEM</u> <u>MATERIAL</u>	<u>BULK</u> <u>DENSITY</u>	<u>SP.GR.</u>	<u>ABSOLUTE</u> <u>VOLUME</u>
P-WAH	193 lb/cu. ft.	5.02	0.0239 gal/lb

SAFETY

See Material Safety Data Sheet



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PAGE: 2 OF 2

SLURRY DATA P-WAH + Class H Cement

P-WAH lb/sk	Water gal/sk	Slurry Wt. lb/gal	Slurry Yield ft³/sk
0	4.29	16.47	1.05
10	4.50	17.00	1.11
20	4.60	17.68	1.16
30	4.66	18.15	1.20
40	4.75	18.70	1.24
50	4.81	19.15	1.28
60	4.90	19.60	1.33

P-WAH + 35 % P-SFR + Class H Cement

P-WAH lb/sk	Water gal/sk	Slurry Wt. lb/gal	Slurry Yield ft³/sk
0	5.86	16.04	1.46
10	5.95	16.50	1.51
20	6.00	17.00	1.55
30	6.10	17.45	1.59
40	6.20	17.71	1.63
50	6.30	18.25	1.68
60	6.40	18.60	1.73
70	6.50	18.91	1.77
80	6.60	19.25	1.82