

Test Results for the API Class H Cmt Used in this Kit are Shown Below



P/N 0105-350-017

NeoSuperSlurry® System

17 ppg Gray Lid Expanding Cement System

Service Temperature Range **70° - 350° F (21° - 177° C)**

This cement kit contains expansion agents and other shear bond enhancing agents.

This kit yields 5 gallons of 17 ppg expanding cement.

The API Class H cmt used in this kit is an HSR grade.

The API Class H Cmt used in this kit has a grind ID No. - TLC #110802

A 17 ppg slurry sample made from the same API Class H grind and admix lots used to make this kit was cured at 250° F (121° C) for 24 hr. The average compressive strength for two 2" cube samples was: 4,515 psi. The correlated average shear bond strength = 621 psi.

A 17 ppg slurry sample made from the same API Class H grind and admix lots used to make this kit was cured at 350° F (177° C) for 24 hr. The average compressive strength for two 2" cube samples was: 6,516 psi. The correlated average shear bond strength = 896 psi.

An API Free Water Test was performed on a 17 ppg slurry sample made from the same API Class H grind and admix batches used to make this kit. The test result was: zero free water.

COMPRESSION & SHEAR BOND STRENGTHS			
Cure Temperature	Number of Samples	Ave. 24 hr. Compression Str.	Corr. Ave. 24 hr. Shear Bond Str.
250° F (121° C)	2	4,515 psi	621 psi
350° F (177° C)	2	6,516 psi	896 psi
API Free Water Test Result: zero free water observed			

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P/N 0105-350-017

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17 ppg Gray Lid Expanding Cement System

Service Temperature Range **70° - 350° F (21° - 177° C)**

This standard service kit has two components; 1) a gray pail, P/N 0105-350-017, containing a High Sulfate Resistant (HSR) API cement blend and 2) a blue pail, P/N 0105-000-000, containing a premeasured amount of mix water. Each kit yields a 5 gallon batch of 17 ppg expanding cement slurry.

Noteworthy Information

- The time needed to achieve service worthy bond strengths at 70° F (21° C) and 170° F (77° C) will vary from 42 to 30 hours, respectively. Accelerator Kit, P/N 0101-225-017, shortens bond strength times at service temperatures below 170° F (77° C).
- The presence of dry gas, crude oil, condensate, mill varnish, an oil film on the casing ID, scale, paraffin, and salt deposits at the plug depth will reduce or eliminate the bond between the cement plug and ID surface of the casing. Contact NeoProducts for technical support if any of these elements exist at the plug depth.
- Flush dump bailers with fresh water between runs to eliminate deleterious residues in the bailers from previous runs.
- NeoProducts is your best Technical Resource for thru-tubing plug-back support. Do not hesitate to contact NeoProducts.

Mixing Instructions

1. Open the NeoSuperSlurry® Mix Water Kit, P/N 0105-000-000. A plastic bottle containing a surfactant/shear bond enhancer is included in the pail. Pour the contents of the bottle into the mix water. Rinse the bottle clean with the mix water. Use the plastic bottle to collect a sample of the 17 ppg cmt slurry.
2. Pour the water and surfactant/shear bond enhancer mixture into a clean empty 6-½ gal pail.
3. Place a NeoSlurry Mixing Unit, P/N 0100-999-001, in the water and surfactant/shear bond enhancer mixture. Adjust the mixing paddle speed to a moderate stirring rate. Avoid splashing water out of the pail.
4. Open the NeoSuperSlurry® Dry Blend Kit, P/N 0105-350-017. Retrieve the plastic bag in the pail. The bag contains mixing instructions and seven (7) admix packages. Add the contents of the packages to the water as instructed.

Stir the water & admix solution for two (2) minutes.

temp @ service depth		add these packages to water kit
Below 175° F	Below 79° C	no addition required
175° - 200° F	79° - 93° C	#1
201° - 225° F	94° - 108° C	#1+#2
226° - 250° F	109° - 122° C	#1+#2+#3
251° - 275° F	123° - 135° C	#1+#2+#3+#4
276° - 300° F	136° - 149° C	#1+#2+#3+#4+#5
301° - 325° F	150° - 163° C	#1+#2+#3+#4+#5+#6
326° - 350° F	164° - 177° C	#1+#2+#3+#4+#5+#6+#7

5. Slowly pour the contents of the gray dry blend kit into the water/admix solution. Maintain a moderate to high mixing speed for the mixing paddle. Avoid splashing slurry out of the mixing pail. Mix the slurry for 15 minutes.
6. Remove the mixing unit. Pour the slurry into the empty 6-½ gal NeoSuperSlurry® gray pail. The slurry should pour evenly and smoothly. Inspect the mixing pail. There should not be any cement clumps in the pail.
7. Allow the slurry to sit still and de-air for 5 minutes.
8. 5 gallons of 17 ppg cement slurry is now ready for service. Fill the bailer with slurry.
9. The slurry should be placed at depth within 120 minutes after mixing.

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