Office of the Revisor of Statutes Administrative Rules



TITLE: Proposed Permanent Rules Relating to Wells and Borings

AGENCY: Department of Health

REVISOR ID: R-4754

MINNESOTA RULES: Chapter 4725

INCORPORATIONS BY REFERENCE:

Part 4725.0150, item E: ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959: ASTM C595, "Standard Specification for Blended Hydraulic Cements," is not subject to frequent change and is available for loan or inspection from the Minnesota Department of Health or through the Minitex interlibrary loan system.

The attached rules are approved for publication in the State Register

Sandy Glass-Sirany Senior Assistant Revisor

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1.1	Department of Health	
1.2	Proposed Permanent Rules Relating to Wells and Borings	
1.3	4725.0100 DEFINITIONS.	
1.4	[For text of subparts 1 to 30m, see Minnesota Rules]	
1.5	Subp. 30n. Neat-cement grout. "Neat-cement grout" means a fluid mixture in the	
1.6	proportion of 94 pounds of Portland cement and not more than six gallons of water. Bentonic	te
1.7	up to five percent by weight of cement (4.7 pounds of bentonite per 94 pounds of Portland	ıd
1.8	cement) may be used to reduce shrinkage. Not more than 0.6 additional gallons of water	
1.9	may be added for each one percent of bentonite. Admixtures to reduce permeability or	
1.10	control setting time must meet ASTM Standard C494/C494M-04. The minimum density	
1.11	of neat-cement grout using regular (Type 1 I or Type IL) Portland cement without bentonic	te
1.12	or entrained air is 15.0 pounds per gallon. The minimum density of regular neat-cement	
1.13	grout with bentonite and without entrained air is:	
1.14	[For text of items A to D, see Minnesota Rules]	
1.15	[For text of subparts 300 to 34, see Minnesota Rules]	
1.16	Subp. 34a. Portland cement. "Portland cement" means a:	
1.17	A. construction material that conforms to ASTM Standard C150-04a, "Standard C150-04a,"	d
1.18	Specification for Portland Cement-"; or	
1.19	B. Type IL blended Portland-limestone cement that conforms to ASTM Standar	:d
1.20	C595, "Standard Specification for Blended Hydraulic Cements."	
1.21	[For text of subparts 35 to 40, see Minnesota Rules]	
1.22	Subp. 40a. Rapid setting cement. "Rapid setting cement" means a:	

A. Type III Portland cement as designated in ASTM Standard C150-04a, an;

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2.1	B. Type IL-HE Portland-limestone ce	ment as designa	ated in ASTM Stand	lard C595,
2.2	"Standard Specification for Blended Hydraulic	c Cements";		
2.3	C. API Class C cement; or			
2.4	D. any Portland cement containing of	alcium chlorid	e or sodium chloric	le in an
2.5	amount between two and four percent by weigh	t of Portland cer	nent, or gypsum in	an amount
2.6	between 20 and 100 percent by weight of Port	land cement.		
2.7	[For text of subparts 40b to	54, see Minnes	ota Rules]	
2.8	4725.0150 INCORPORATIONS BY REFE	ERENCE AND	ABBREVIATIO	NS.
2.9	This part indicates documents, specificati	ons, and standa	rds that are incorpo	orated by
2.10	reference in this chapter. This material is not s	ubject to freque	ent change and is a	vailable
2.11	from the source listed, for loan or inspection fr	om the Minnes	ota Department of	Health, or
2.12	through the Minitex interlibrary loan system.	Γο borrow or in	spect a reference, o	e-mail the
2.13	Minnesota Department of Health Well Manage	ement section a	t health.wells@sta	te.mn.us,
2.14	or go to Search Minnesota Department of Hea	lth Library and	Beyond	
2.15	(www.minnesotadepartmentofhealthlibrary.on	.worldcat.org/d	iscovery). The abb	reviations
2.16	listed in parenthesis after the source name are	used in this cha	ipter.	
2.17	[For text of items A to D,	see Minnesota	Rules]	
2.18	E. ASTM International, 100 Barr Ha	arbor Drive, We	est Conshohocken,	PA
2.19	19428-2959.			
2.20	[For text of subitems (1) to	(5), see Minnes	ota Rules]	
2.21	(6) ASTM C595, "Standard Spe	ecification for E	Blended Hydraulic	Cements."

(6) (7) ASTM D2466-02, "Standard Specification for Poly (Vinyl Chloride)

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(PVC) Plastic Pipe Fittings, Schedule 40."

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3.1	(7) (8) ASTM D2487-00, "Standard Classification of Soils for Engineering
3.2	Purposes (Unified Soil Classification System)."
3.3	(8) (9) ASTM D2683-14, "Standard Specification for Socket-Type
3.4	Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing."
3.5	(9) (10) ASTM D3035-15, "Standard Specification for Polyethylene (PE)
3.6	Plastic Pipe (DR-PR) Based on Controlled Outside Diameter."
3.7	(10) (11) ASTM F480-02, "Standard Specification for Thermoplastic Water
3.8	Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR), SCH 40, and
3.9	SCH 80."
3.10	(11) (12) ASTM F714-13, "Standard Specification for Polyethylene (PE)
3.11	Pipe (DR-PR) Based on Outside Diameter."
3.12	(12) (13) ASTM F876-20, "Standard Specification for Crosslinked
3.13	Polyethylene (PEX) Tubing."
3.14	(13) (14) ASTM F877-20, "Standard Specification for Crosslinked
3.15	Polyethylene (PEX) Hot- and Cold-Water Distribution Systems."
3.16	(14) (15) ASTM F1055-16, "Standard Specification for Electrofusion Type
3.17	Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked
3.18	Polyethylene (PEX) Pipe and Tubing."
3.19	(15) (16) ASTM F1807-19b, "Standard Specification for Metal Insert Fittings
3.20	Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps, for SDR9 Cross-linked
3.21	Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT)
3.22	Tubing."

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4.1	(16) (17) ASTM F1960-19a, "Standard Specification for Cold Expansion
4.2	Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and
4.3	Polyethylene of Raised Temperature (PE-RT) Tubing."
4.4	(17) (18) ASTM F2080-19, "Standard Specification for Cold-Expansion
4.5	Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and
4.6	SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe."
4.7	(18) (19) ASTM F2620-19, "Standard Practice for Heat Fusion Joining of
4.8	Polyethylene Pipe and Fittings."

[For text of items F to J, see Minnesota Rules]

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