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Ductile Iron Pipe Certifications – What They Provide

Old West stories of yore and so many movies of the past have shown persons biting down on a gold or silver coin to verify its authenticity. Surely there must be a better way, especially in the modern era, and there is - they are called mill certifications. In the case of ductile iron pipe these certifications capture all the pertinent quality assurance information related to a reliably small window of a pipe casting period. Complete traceability is achieved from the combination of integrally-cast markings upon every pipe, along with a time-stamped serial-coded production sticker attached to the exterior of each pipe at the bell end. Concepts and information addressed in this session include:

- Base chemistry of the metal – raw iron mix as melted into a liquid,
- ductile chemistry – following conversion from raw metal liquid into ductile iron,
- the DI run number – day of the year the pipe was cast (Julian calendar 001 – 365),
- country and specific location of manufacture,
- physical proof material test results – Charpy impact, tensile strength & elongation,
- visual and gauged inspections confirming critical measurements of the bell, barrel, and spigot of the pipe,
- 500-psi hydrostatic pressure test of each pipe individually, no exceptions.

McWANE DUCTILE
 IRON STRONG HOW TO VIDEOS
 401201082011161
12" C-52
CL/P ZINC/P
 SLJFG Mfg: 07/12/2018 Pkg: 07/12/2018 00:00
 Wt: 825 lbs. Cuts: NO C.P.: 9

 1

SAMPLES TO SPEC. ANSI/AWWA C151/A21.51

SPECIFICATIONS		PHYSICAL TEST DATA								
ASA 60-42-10		60,000 PSI Min	42,000 PSI Min	10 % Min	7.0 Min	3.0 Min	No Limit Set			
Cast Date	Sample 1*	Tensile Str. PSI	Yield Str. PSI	% Elong	Impact Ft-Lb @ F Deg		Hardness Rockwell B			
					70 Deg	-40 Deg	Out	Mid	In	
1	04-25-18 2 - 8" - 18'	97,600	56,300	10	10.4	6.4	91	92	86	
2	10 - 24" - 18'	88,600	51,200	10	9.3	6.2	80	92	92	
3	15 - 16" - 18'	72,600	43,800	10	9.3	5.7	87	90	88	

* Half-Hour of Production time, pipe size, floor

Presentation Duration: can be tailored from 30 to 45 minutes per client's request.

Available Presenters: McWane Ductile Regional Engineers, Product Engineers and select local Sales Representatives. Details provided upon scheduling of a Training Session.

Prior Presentation Locations: 12 of the 48 contiguous United States.
CEU / PDH / TCH professional development hours available in select locations.

Contact: www.mcwaneductile.com/sales-support/sales-operations or pe.mcwane.com