

CERTIFICATE

This is to certify that **NELTEX Development Co., Inc.** is producing **Neltex Waterline uPVC Pipe Series 8** with sizes 20mm, 25mm, 32mm, 40mm, 50mm, 63mm, 90mm, 100mm, with effective length of 3 meters.

Neltex Waterline uPVC Pipe Series 8 are inspected and tested in conformance to PNS 65 : 1993 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) Pipes for Potable Water Supply.

This certification is being issued for whatever legal purposes it may serve.

Neltex Development Company Incorporated



Reynaldo C. Degollado
QA Manager

TECHNICAL SPECIFICATIONS

PRODUCT	Neltex Waterline uPVC Pipe Series 8
REFERENCE STANDARD	PNS 65 : 1993 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) Pipes for Potable Water Supply

A. DIMENSION

NOMINAL SIZE (mm)	OUTSIDE DIAMETER (mm)		Wall Thickness (mm)		Effective Length (m)
	MIN	MAX	MIN	MAX	
20	20.00	20.30	1.800	2.180	3.0
25	25.00	25.30	1.900	2.290	3.0
32	32.00	32.30	2.000	2.400	3.0
40	40.00	40.30	2.300	2.730	3.0
50	50.00	50.30	2.900	3.390	3.0
63	63.00	63.30	3.600	4.160	3.0
90	90.00	90.30	5.200	5.920	3.0
100	110.00	110.40	6.300	7.130	3.0

B. PHYSICAL PROPERTIES

PROPERTY	STANDARD REQUIREMENT	TEST METHOD
Vicat Softening Temperature	Minimum 76° C	ISO 2507 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Vicat Softening temperature
Resistance to Dichloromethane	No sign of delamination or disintegration after 15 minutes of immersion	ISO 9852 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Dichloromethane Resistance
Longitudinal Reversion	5.00% maximum after 120 minutes at 150° C	ISO 2505 Thermoplastics Pipes - Longitudinal Reversion
Resistance to External Blows (Impact Resistance)	True Impact Rate (TIR) shall not exceed 10% where TIR = total number of breaks / total number of blows	ISO 3127 Thermoplastics Pipes – Determination of Resistance to External Blows Round - the - Clock Method

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B. PHYSICAL PROPERTIES

PROPERTY	STANDARD REQUIREMENT	TEST METHOD
Flattening	No evidence of splitting, cracking or breaking when flattened to 40% of the outside diameter	ASTM D2241 Standard Specification for Polyvinyl Chloride (PVC) Pressure-Rated Pipe (SDR Series)
Water Absorption	Maximum 40 g/m ²	ISO 2508 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings - Water Absorption – Determination and Specification
Resistance to Sulfuric Acid	Mass of Specimen shall not increase by more than 0.316g nor decrease by more than 0.013g	ISO 3473 Unplasticized Polyvinyl Chloride (PVC) pipes - Effect of Sulfuric Acid – Requirement and Test Method
Hydrostatic Pressure	Burst Pressure – The pipe shall withstand 4.56MPa for at least 60 seconds without failure	ISO 1167 Thermoplastic Pipes Fittings and Assemblies for the Conveyance of Fluids Determination of the Resistance to Internal Pressure
	Short Term Pressure – The pipe shall withstand 4.30MPa for at least 1 hour without failure	



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