

BECETEL	Scope of accreditation	Form scope
		11.02.2015 Revision no. 13
		Last update : 08.03.2016

Instruction n°	Material	Determination	Test method	Material / Examples of some product standards
WINS001	Plastics : pipes fittings valves	Dimensions : Wall thickness, diameter, angle, length	EN ISO 3126 NBN T42-402 (1978)	NBN T42-603 NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1453 NBN EN 1519 NBN EN 1555 NBN EN 1566 NBN EN 1852 NBN EN 12201 NBN EN 12666 NBN EN 13244 (2002) ISO 4427 ISO 4437 NBN EN ISO 15874 NBN EN ISO 15494 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 NBN EN 13476 DVGW W320 DVGW W544 DVGW GW335-A2 DVGW GW335-B2/ -B2-B1 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T42-104 (1989) NBN T42-105 (1992) NBN T42-106 (1986) NBN T42-110 (1980) NBN T42-601 (1976)
WINS002	Plastics pipes	Longitudinal reversion	NBN EN ISO 2505 NBN EN 743 (1994)	NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1453 NBN EN 1519 NBN EN 1555-2 NBN EN 1566 NBN EN 1852 NBN EN 12201 NBN EN 12666 NBN EN 13244-2 (2002) ISO 4427 ISO 4437 NBN EN ISO 15494 NBN EN ISO 15874 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 DIN 8075 / 8078 / 8080 DIN 16833 DIN 16892 DIN 16968 DVGW W320 DVGW GW335-A2 DVGW W544 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T42-104 (1989) NBN T42-105 (1992) NBN T42-106 (1986) NBN T42-111 (1989)

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WINS003	Plastics : pipes fittings valves	Resistance to internal pressure	NBN EN ISO 1167-1/2/3/4, NBN EN 917, DIN 8075, NBN EN ISO 13846, NBN EN 921 (1995) ASTM D 1598	NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1519 NBN EN 1555 NBN EN 1566 NBN EN 1852 NBN EN 12201 NBN EN 13244 (2002) ISO 4427 ISO 4437 ISO 10838-1/2/3 (2000) NBN EN ISO 15494	NBN EN ISO 15874 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 DVGW W320 DVGW GW335-A2/-B2/-B2-B1 DVGW W544 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986) NBN T 42-110 (1980)
		Resistance to slow crack growth of a notched pipe (notch test)	NBN ISO EN 13479 (SCG)		
		Resistance to gas constituents	ISO 4437 (Annex A) EN 1555-1		
WINS004	Plastics pipes	Resistance to external blows by the round-the-clock method and by the staircase method	NBN EN 744, ISO 3127 NBN EN 1411	NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1453 NBN EN 1566	NBN EN 1852 NBN EN ISO 15874 NBN EN ISO 15877 NBN T 42-110 (1980) DVGW W544
WINS005	Plastics	Density (immersion method)	NBN EN ISO 1183-1 NBN T42-406 (1980)	NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN ISO 1452 NBN EN 1519 NBN EN 1566 NBN EN 12201 NBN EN 13244 (2002) NBN EN 13341	ISO 4437 NBN EN ISO 14632 NBN EN ISO 15494 NBN EN ISO 15877 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-110 (1980) NBN T 42-601 (1976)
WINS006	Plastics	Vicat softening temperature (VST)	NBN EN ISO 306, NBN EN 727, ASTM D 1525 ISO 2507-1/-2/-3	NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN ISO 1452 NBN EN 1453	NBN EN 1566 NBN EN ISO 15877 DVGW W544 NBN T 42-110 (1980) NBN T 42-601 (1976)

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WINS011	Plastics fittings, structured-wall pipes	Visual assessment of the effect of heating (oven test)	NBN EN ISO 580 ISO 12091 NBN EN 763 (1994)	NBN T 42-603 NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1455 NBN EN 1519 NBN EN 1565 NBN EN 1566 NBN EN 1852 NBN EN 12666 NBN EN 13476 NBN EN ISO 15877 NBN T 42-601 (1976)
WINS013	Plastics	Melt mass-flow rate (MFR)	NBN EN ISO 1133-1, ASTM D 1238, DIN 53735 (1988) ISO 4440 (1994)	NBN EN 1451 NBN EN 1519 NBN EN 1555 NBN EN 1852 NBN EN 12201 NBN EN 12666 NBN EN 13244 (2002) NBN EN 13341 ISO 4427 ISO 4437 NBN EN ISO 14632 NBN EN ISO 15494 NBN EN ISO 15874 NBN EN ISO 15876 DVGW W320 DVGW GW335-A2/-B2/-B2-B1 DVGW W544 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986)
WINS016	PE pipes	Resistance to rapid crack propagation (S4 test)	EN ISO 13477	NBN EN 1555 NBN EN 12201 NBN EN 13244 ISO 4437 DVGW GW335-A2/-B2/-B2-B1 DIN CERTCO ZP 14.3.1 G / TW / AW / DA
WINS021	Plastics	Tensile properties : yield strength, tensile strength, strain at break	NBN EN ISO 527-1/2/3/4/5, NBN EN ISO 6259-1/2/3 ASTM D 638 or comparable NBN T42-401 (1986), NBN EN 638 (1994), DIN 53455 (1981)	NBN EN 1329 NBN EN 1401 NBN EN 1519 NBN EN 1555 NBN EN 12201 NBN EN 12666 NBN EN 13244 (2002) NBN EN 13341 ISO 4427 ISO 4437 NBN EN ISO 14632 NBN EN ISO 15877 ASTM D4894 §10.7 ASTM D4895 DVGW GW335-A2 DIN CERTCO ZP 14.3.1 G / TW / AW / DA NBN T 42-104 (1989) NBN T 42-105 (1992) NBN T 42-106 (1986)

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WINS022	Polyolefin assemblies with electrofusion joints, butt fusion joints or mechanical fittings	Tensile test on assemblies (pipe/pipe or pipe/fitting)	ISO 13951 ISO 17885 NBN EN 712 ISO 10838-1/2/3-§8.3.1-§9.3.1 (2000)	
WINS023	PE electrofusion or heated tool saddles	Tear test for saddle assemblies	ISO 13956	NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) DVGW GW335-B2/-B2-B1 NBN T42-010 NBN T42-011 NF 136
WINS024	PE electrofusion or heated tool saddles	Crush test	ISO 13955	NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) NBN T42-010 NF 136 DVGW GW335-B2/-B2-B1
WINS025	PE electrofusion sockets	Peel decohesion test for electrofusion assemblies	ISO 13954	NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) NBN T42-010 NBN T42-011 DVGW GW335-B2/-B2-B1
WINS026	PE pipes	Determination of the tensile strength of test pieces from a butt-fused joint	ISO 13953	NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) NBN T42-010 NBN T42-011 DVGW GW335-B2/-B2-B1
WINS027	Thermoplastics, thermosetting or fibre reinforced materials	Determination of flexural properties (3 point load): flexural stress, displacement, module	NBN EN ISO 178 NBN EN ISO 14125	
WINS034	Assemblies in PEX, PP, PB, PVC-C or multilayer	Slow speed tensile test	BUtgb approval guideline for thermoplastics pressure piping systems, version of 18/10/2007	

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WINS035	PE pipes, fittings, valves	Oxidation induction time (OIT)	NBN EN 728, NBN EN ISO 11357-6 ISO/TR 10837 (1991)	NBN T 42-105 NBN T 42-106 NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) NBN EN ISO 15494 ISO 4427 ISO 4437 DVGW GW335-A2/-B2/-B2-B1 DIN CERTCO ZP 14.3.1 G / TW / AW / DA
WINS038	PE, PVC or PP pipes, Structured-wall pipes	Determination of the ring stiffness	EN ISO 9969	
WINS040	Fused membranes of PE, PVC or reinforced plastics	Peel test on fused membranes	NBN EN 12814-4	
WINS041	PE valves	Pressure testing – leak tightness	ISO 5208 NBN EN 1555-4 Annex A NBN EN 12201-4 Annex A	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002)
WINS042	PE valves	Operating torque, stop resistance and actuation mechanism resistance	NBN EN 28233 ISO 8233	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002) ISO 4437-4
WINS043	PE valves	Resistance to bending between supports	NBN EN 12100	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002) ISO 4437-4
WINS044	PE valves	Leaktightness and ease of operation after tensile loading	ISO 10933	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002)
WINS045	PE valves	Resistance to thermal cycling	NBN EN 1704, NBN EN 12119	NBN EN 1555-4 NF 136 ISO 4437-4

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WINS046	PE valves	Integrity after an external blow	NBN EN 1705	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002) ISO 4437-4
WINS047	PE valves	Leaktightness under and after bending applied to the operating mechanism	NBN EN 1680	NBN EN 1555-4 NBN EN 12201-4 NBN EN 13244-4 (2002) ISO 4437-4
WINS049	Plastics pipes and structured-wall pipes	Test methods for leaktightness of elastomeric sealing ring type joints	NBN EN 1277	NBN EN 1329 NBN EN 1401 NBN EN 1455 NBN EN 1566 NBN EN 1451 NBN EN 1519 NBN EN 1565 NBN EN 1852 NBN EN 12666 NBN EN 13476
WINS050	Metallic wire	Tensile test on metallic wire	NBN EN ISO 6892-1 NBN EN 10002-1 (2002)	
WINS051	Structured-wall pipes	Determination of dimensions of perforations	prNBN T42-113 prNBN T42-115	
WINS052	Thermoplastics fittings	Determination of impact resistance	NBN EN 12061	NBN EN 1329 NBN EN 1401 NBN EN 1852 NBN EN 13476
WINS057	PE pipes with mechanical joints	Resistance to thermal cycling (mechanical joints)	ISO 17885 ISO 3458, ISO 3503 ISO 10838-1/2/3-§8.2, §9.2 (2000)	
WINS060	PE valves	Leaktightness angular range	NF T 54-972	
WINS061	Plastics pipes for drinking water and gas	Homogeneity	DVGW W544 DVGW GW335-A2	

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WINS062	PE pipes, PE fittings, PE valves	Pigment dispersion or carbon black dispersion	ISO 18553	NBN EN 1555 NBN EN 12201 NBN EN 13244 (2002) ISO 4427 ISO 4437 NBN EN ISO 15494 DVGW GW335-A2/B2 DIN CERTCO, ZP 14.3.1 G / TW / AW / DA
WINS063	Plastics : Pipes, Fittings, valves	Appearance	No test standard, see product standards	NBN EN 1329 NBN EN 1401 NBN EN 1451 NBN EN ISO 1452 NBN EN 1453 NBN EN 1519 NBN EN 1555 NBN EN 1565 NBN EN 1566 NBN EN 1852 ISO 4427 ISO 4437 DIN 8075 DIN 8078 DIN 8080 NBN EN 12666 NBN EN ISO 15494 NBN EN ISO 15874 NBN EN ISO 15875 NBN EN ISO 15876 NBN EN ISO 15877 DVGW GW335-A2 DVGW GW335-B2/-B2-B1 DVGW W544 DIN CERTCO, ZP 14.3.1 G / TW / AW / DA DIN 16833 DIN 16892 DIN 16968
WINS066	PVC profiles for windows and doors	Heat reversion	NBN EN 479	NBN EN 12608
WINS067	PVC profiles for windows and doors	Resistance to impact by external blows	NBN EN 477	NBN EN 12608
WINS070	PVC profiles for windows and doors	Appearance after exposure at 150°C	NBN EN 478	NBN EN 12608
WINS071	Structured-wall pipes	Ring flexibility	NBN EN ISO 13968 EN 1446 (1996)	NBN EN 13476

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WINS072	Porous paving	Vertical load test : compressive strength and deflection	PTV 828 §3.3.1/3.3.2	PTV 828
WINS073	Porous paving	Tensile strength of connection	PTV 828 §3.3.4	PTV 828
WINS074	PE electrofusion fittings	Safety time of the fusion cycle	NF T 54-969	NF 136 Eandis specification G003
WINS076	Plastics ancillary fittings for concrete piping systems for non-pressure underground drainage and sewerage	Mechanical resistance of mechanical plastics saddles	NBN T 42-605 §4.4	
	Plastics ancillary fittings for plastics piping systems for non-pressure underground drainage and sewerage		NBN EN 13598-1 Annex B.3.1, followed by NBN EN 1277 Condition A at 1,0 bar water pressure	
WINS079	PE pipes	Preparation for electrofusion welding	ISO 11413	EN 1555-5/-7 NBN EN 12201 NF 136 DVGW GW355-B2/-B2-B1
WINS081	Plastics pipes	Regression curves, calculation of the long-term hydrostatic strength + classification	NBN EN ISO 9080 NBN EN ISO 12162	