



جمهوری اسلامی ایران
Islamic Republic of Iran



I Identification Number of Accreditation
NACI/Lab/463
Initial Accreditation Date and Place: 2023.05.21-Tehran
Renewal Date: ---
Amendment Date: ---
Expiry Date : 2026.05.21

Laboratory Accreditation Certificate

Annex

Accreditation Scope of Sanati Talayeh Mashhad

No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
1	Plastics Saddles- Polyethylene pressure pipes	✓		Specifications and test method	up to 160 bar D: (16 to 225) mm	INSO 8996
2	Steps for underground man entry chambers		✓	Specifications and test method	---	ISIRI 12027
3	Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene		✓	Materials	---	INSO 16509-1 Clause 5
				Appearance		INSO 16509-1 Clause 6-1
				Color		INSO 16509-1 Clause 6-2
				Geometry		INSO 16509-1 Clause 7
				Determination of ring stiffness		INSO 16509-1 Clause 8-1-1
				Impact resistance (clockwise method)		INSO 16509-1 Clause 8-1-1
				Impact resistance (stepped method)		INSO 16509-1 Clause 8-1-2
Impact strength (fall test)	INSO 16509-1 Clause 8-2					

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
3	Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene		✓	Determination of the Melt Mass-Flow Rate(MFR)	---	INSO 16509-1 Clause 9-1
				Determination of oxidation induction time (OIT)		INSO 16509-1 Clause 5-5
				Determination Longitudinal Reversion		INSO 16509-1 Clause 9-1
				Heating effects		INSO 16509-1 Clause 9-2
				Sealing		INSO 16509-1 Clause 9-2
				Marking		INSO 16509-1 Clause 12
4	Plastics Piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifiers		✓	Materials	---	INSO 16659-1 Clause 4
				Appearance		INSO 16659-1 Clause 5-1
				Color		INSO 16659-1 Clause 5-2
				Geometry		INSO 16659-1 Clause 6
				Determination of ring stiffness		INSO 16659-1 Clause 7-1-1
				Impact resistance (clockwise method)		INSO 16659-1 Clause 7-1-1

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4	Plastics Piping systems for non-pressure underground drainage and sewerage – Polypropylene with mineral modifiers		✓	Impact resistance (stepped method)	---	INSO 16659-1 Clause 7-1-3
				Impact strength (fall test)		INSO 16659-1 Clause 7-2
				Determination Longitudinal Reversion		INSO 16659-1 Clause 8-1
				Heating effects		INSO 16659-1 Clause 8-2
				Sealing		INSO 16659-1 Clause 8-2
				Marking		INSO 16659-1 Clause 11
5	Piping systems for hot and cold water installations – Polypropylene-pipes		✓	Material	---	INSO 6314-2 Clause 4-1
				Appearance		INSO 6314-2 Clause 5-1
				murky		INSO 6314-2 Clause 5-2
				Geometry		INSO 6314-2 Clause 6
				Resistance to internal pressure		INSO 6314-2 Clause 7
				Determination Longitudinal Reversion		INSO 6314-2 Clause 8-1

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5	Piping systems for hot and cold water installations – Polypropylene-pipes		✓	Determination of the Melt Mass-Flow Rate(MFR)	---	INSO 6314-2 Clause 8-1
				Determination of oxidation induction time (OIT)		INSO 6314-2 Clause 8-1
				Impact resistance (Pandoli method)		INSO 6314-2 Clause 8-2
				Marking		INSO 6314-2 Clause 10
6	Piping systems for hot and cold water installations – Polypropylene –Fittings		✓	Appearance	---	INSO 6314-3 Clause 5-1
				Murky		INSO 6314-3 Clause 5-2
				Geometry		INSO 6314-3 Clause 6
				Resistance to internal pressure		INSO 6314-3 Clause 7
				Determination of the Melt Mass-Flow Rate(MFR)		INSO 6314-3 Clause 8
				Marking		INSO 6314-3 Clause 11

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7	Plastic mechanical fittings for piping systems under pressure		✓	Appearance	---	INSO 21264 Clause 7-1
				Color		INSO 21264 Clause 7-2
				Physical characteristics		INSO 21264 Clause 9
				Resistance of the connection body to pressure		INSO 21264 Clause 10-2
				No leakage under internal pressure		INSO 21264 Clause 10-3
				(no leakage under long-term internal pressure)		INSO 21264 Clause 10-3
				(Resistance to coming out at 23 °C)		INSO 21264 Clause 10-3
				(no leakage under internal stress and subject to bending)		INSO 21264 Clause 10-3
				(no leakage under negative pressure)		INSO 21264 Clause 10-3
				No leakage with deviation and deformation of the angle		INSO 21264 Clause 10-3
Marking	INSO 21264 Clause 11					

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
8	Pipes, fittings and piping system PP Polypropylene consumable Building sewage discharge		✓	Appearance	---	ISIRI 13822-1 Clause 6-1
				Color		ISIRI 13822-1 Clause 6-2
				Geometry		ISIRI 13822-1 Clause 7
				Impact resistance (clockwise method)		ISIRI 13822-1 Clause 8-1-1
				Impact resistance (stepped method)		ISIRI 13822-1 Clause 8-1-2
				Determination Longitudinal Reversion		ISIRI 13822-1 Clause 9-1
				Determination of the Melt Mass-Flow Rate(MFR)		ISIRI 13822-1 Clause 9-1
				Physical characteristics of connections		ISIRI 13822-1 Clause 9-2
				Performance		ISIRI 13822-1 Clause 10
				Marking		ISIRI 13822-1 Clause 12

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9	Faucets		✓	Dimension	---	ISIRI 3664 Clause 8
				Shell and Backseat tightness		ISIRI 3664 Clause 11-2-1
				Seat tightness		ISIRI 3664 Clause 11-2-2
				Backseat sealing after removal of sealing materials		ISIRI 3664 Clause 11-2-3
				Marking		ISIRI 3664 Clause 12
10	buried piping systems for sewage and polyethylene gravity drainage applications Pipes, connections and system		✓	Density of the base polyethylene	---	INSO 16498-1 Clause 4
				Determination of Carbon Black Content		INSO 16498-1 Clause 4
				Determination Carbon Black Dispersion		INSO 16498-1 Clause 4 Clause 8-1 Clause 8-2
				Determination of Volatile content		INSO 16498-1 Clause 4

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10	buried piping systems for sewage and polyethylene gravity drainage applications Pipes, connections and system		✓	Determination of oxidation induction time (OIT)	---	INSO 16498-1 Clause 4 Clause 8-1 Clause 8-2
				Determination of the Melt Mass-Flow Rate (MFR)		INSO 16498-1 Clause 4 Clause 8-1 Clause 8-2
				Appearance		INSO 16498-1 Clause 5-1
				Color		INSO 16498-1 Clause 5-2
				Geometry		INSO 16498-1 Clause 6
				Ring stiffness		INSO 16498-1 Clause 7-1 Clause 7-2
				Weight drop test		INSO 16498-1 Clause 7-2
				Determination Longitudinal Reversion		INSO 16498-1 Clause 8-1
				Heating effects		INSO 16498-1 Clause 8-2
				Sealing		INSO 16498-1 Clause 8-2
				Marking		INSO 16498-1 Clause 11

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
11	Plastics piping systems for water supply and for drainage and sewerage under pressure - Polyethylene - Pipes		✓	Materials	---	INSO 14427-2 Clause 5
				Appearance		INSO 14427-2 Clause 6-1
				Color		INSO 14427-2 Clause 6-2
				Geometry		INSO 14427-2 Clause 7
				Hydrostatic strength at 20 and 80 °C		INSO 14427-2 Clause 8-2
				Strain at failure		INSO 14427-2 Clause 9-2
				Determination of the Melt Mass-Flow Rate(MFR)		INSO 14427-2 Clause 9-2
Marking	INSO 14427-2 Clause 12					
12	Plastics piping systems for water supply, drainage and sewerage under pressure - Polyethylene - Fittings		✓	Materials	---	INSO 14427-3 Clause 5
				Appearance		INSO 14427-3 Clause 6-1
				Color		INSO 14427-3 Clause 6-3
				Geometry		INSO 14427-3 Clause 7

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12	Plastics piping systems for water supply, drainage and sewerage under pressure - Polyethylene - Fittings		✓	Resistance to short-term internal pressure	---	INSO 14427-3 Clause 8-5
				Determination of the Melt Mass-Flow Rate(MFR)		INSO 14427-3 Clause 9-2
				Determination of oxidation induction time (OIT)		INSO 14427-3 Clause 9-2
				Marking		INSO 14427-3 Clause 12
13	Plastics piping systems – polyethylene -for irrigation applications		✓	Materials	---	INSO7607 Clause 4
				Geometry		INSO7607 Clause 5
				Hydrostatic strength at 80°C and 20 °C		INSO7607 Clause 6-1
				Determination of Carbon Black Content		INSO7607 Clause 4-3 Clause 8
				Determination Carbon Black Dispersion		INSO7607 Clause 4-3 Clause 8

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13	Plastics piping systems – polyethylene -for irrigation applications		✓	Determination of the Melt Mass-Flow Rate(MFR)	---	INSO7607 Clause 4-3 Clause 8
				Determination of oxidation induction time (OIT)		INSO7607 Clause 4-3 Clause 8
				Determination Longitudinal Reversion		INSO7607 Clause 4-3 Clause 8
				Marking		INSO7607 Clause 11
14	Water meters for cold potable water and hot water	✓		Marking	---	INSO 19191-1 Clause 6-6
				DN15 to DN25		INSO 19191-2
15	Manually operated copper alloy and stainless steel ball valves for potable water supply in buildings		✓	Measuring ball bore	---	INSO 16222 Clause 5-5
				Leak tightness		INSO 16222 Clause 7-4-1
				Hydraulic strength		INSO 16222 Clause 7-4-2
				Marking		INSO 16222 Clause 8

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
16	Multilayer piping systems for hot and cold water installations inside buildings-pipes		✓	Materials	---	INSO 12753-2 Clause 4
				Appearance		INSO 12753-2 Clause 5-1
				passage of light		INSO 12753-2 Clause 5-2
				Geometry		INSO 12753-2 Clause 7-2
				Compressive strength		INSO 12753-2 Clause 8
				strength of the welding line of pipes		INSO 12753-2 Clause 10
				Determination of the Melt Mass-Flow Rate(MFR)		INSO 12753-2 Clause 13-2
				Marking		INSO 12753-2 Clause 4
17	Multilayer piping systems for hot and cold water installations inside buildings - Fittings		✓	Materials	---	INSO 12753-3 Clause 5-1
				Appearance		INSO 12753-3 Clause 6-1
				passage of light		INSO 12753-3 Clause 6-2
				Geometry		INSO 12753-3 Clause 7
				Internal pressure		INSO 12753-3 Clause 8
				Marking		INSO 12753-3 Clause 11

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18	Piping systems for the supply of gaseous fuels - Polyethylene- Pipes		✓	Materials	---	INSO 11233-2 Clause 4
				Appearance		INSO 11233-2 Clause 5-1
				Determination Longitudinal Reversion		INSO 11233-2 Clause 8-2
				Marking		INSO 11233-2 Clause 10
19	Plastics and ebonite		✓	Determination of indentation hardness by means of a durometer	Shore A	INSO 1993
20	Rubber, vulcanized or thermoplastic		✓	Determination of compression set At ambient temperatures	ambient temperature to 25 C°	INSO 22020-1
21	copper alloys with zinc		✓	Determination of dezincification resistance	---	INSO 8863-1
22	Absorbent polymers		✓	Determination moisture content of superabsorbent polymers	---	ISIRI 4433

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23	Rubber O-Rings		✓	Determination tensile strength and elongation Percentage	up to 500 kgf up to 200 mm/min up to 500 mm	ASTM D1414 Clause 8

- 1- **Product Oriented:** Laboratory is accredited to meet all requirements of the product specification standard.
2- **Test Oriented:** Laboratory is accredited for carrying out the tests mentioned in the above table.

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