

Scope of Accreditation

Accredited body: VUIS – CESTY, spol. s r. o.

Vlčie hrdlo 1, 821 07 Bratislava – mestská časť Ružinov

Organizational unit performing the activity of the accredited body:

Organizátor skúšania spôsobilosti VUIS – CESTY, spol. s r. o.

Place of performance of the accredited body:

Vlčie hrdlo 1, 821 07 Bratislava – mestská časť Ružinov

Identification number of the accredited body: 020/T-009

Item	Field	Subject of proficiency testing	Compared properties (parameters, indicators, analytes) Range compared values	Indication of the proficiency testing program	Other specification
1.	Road construction materials and roads	Bitumen and bituminous binders	penetration	VUCES-PTx/AS/rrrr/mm	1 time in 5 years
			softening point		
			water content in bituminous emulsions - Azeotropic distillation method		
			residue on sieving of bituminous emulsions, and determination of storage stability by sieving		
			particle polarity of bituminous emulsions		
			solubility		
			Fraass breaking point		
			kinematic viscosity		
			dynamic viscosity by vacuum capillary		
			paraffin wax content (Method by distillation)		
			resistance to hardening under influence of heat and air (RTFOT method)		
			resistance to hardening under the influence of heat and air (TFOT method)		
			resistance to hardening under influence of heat and air (RFT method)		
			efflux time by the efflux viscometer		
			mixing stability with cement of bituminous emulsions		
			penetration power of bituminous emulsions		
			pH value of bituminous emulsions		
			breaking value of cationic bituminous emulsions (mineral filler method)		
			finer mixing time of cationic bituminous emulsions		
			staining tendency of bitumen		
			dynamic viscosity of bituminous binder using a rotating spindle apparatus		
			loss in mass after heating of industrial bitumen		
			distillation characteristics of cut-back and fluxed bituminous binders made with mineral fluxes		
			elastic recovery		
			storage stability of modified bitumen		
			tensile properties (tensile test method)		
			cohesion of bituminous binders with pendulum test		
			tensile properties of modified bitumen by the force ductility method		
			adhesivity of bituminous emulsions by water immersion test		
			polymer dispersion in polymer modified bitumen		
			dynamic viscosity of bitumen and bituminous binders by the cone and plate method		



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1.	Road construction materials and roads	Bitumen and bituminous binders	accelerated long-term ageing conditioning (PAV)	VUCES-PTx/AS/rrrr/mm	1 time in 5 years
complex shear modulus and phase angle - Dynamic Shear Rheometer (DSR)					
flexural creep stiffness - Bending Beam Rheometer (BBR)					
density and specific gravity - Capillary-stoppered pycnometer method					
adhesivity of cut-back and fluxed bituminous binders by water immersion test - Aggregate method					
efflux time of bituminous emulsions using the Redwood No. II Viscometer					
water content in bituminous emulsions (Method using a drying balance)					
equi-shear modulus temperature and phase angle using a Dynamic Shear Rheometer (DSR) - BTSV test					
2.		Aggregates	particle size distribution and fines content	VUCES-PTx/K/rrrr/mm	
			flakiness index		
			shape index		
			percentage of crushed particles		
			flow coefficient		
			shell content		
			sand equivalent		
			methylene blue (MB)		
			grading of filler aggregates		
			Classification test for the constituents of coarse recycled aggregate		
			resistance to wear (micro-Deval)		
			resistance to fragmentation (Los Angeles)		
			loose bulk density and voids		
			voids of dry compacted filler		
			water content by drying in a ventilated oven		
			particle density and water absorption		
			particle density of filler (Pycnometer method)		
			polished stone value		
			water suction height		
			compressibility and confined compressive strength of lightweight aggregates		
			resistance to freezing and thawing		
			magnesium sulfate value (MS)		
			boiling test for "Sonnenbrand basalt"		
			drying shrinkage		
			resistance to thermal shock		
resistance to freezing and thawing in the presence of salt (NaCl)					
resistance to disintegration of Lightweight Aggregates					
content of water-soluble chloride salt					
content of water-soluble sulphates					
total sulfur content					
content of acid soluble sulphates					
content of acid soluble sulfides					
content of lightweight particles					
humus content					
fulvo acid content					
content of organic contaminators by mortar method					
water solubility					
water solubility of filler					

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2.	Road construction materials and roads	Aggregates	loss on ignition	Road construction materials and roads	1 time in 5 years
			content of free lime in steel slag		
			water susceptibility of fillers for bituminous mixtures		
			content of acid soluble chloride salts		
			influence of recycled aggregate extract on the initial setting time of cement		
			loss of ignition of Municipal Incinerator Bottom Ash Aggregate		
			metal content of Municipal Incinerator Bottom Ash (MIBA) Aggregates		
			filler aggregate, delta ring and ball test		
			bitumen number		
			density, jolted bulk density, percentage air voids of jolted aggregates and aggregates porosity		
3.		Bituminous mixtures	alkali-aggregate expansion	VUCES-PTx/AZ/rrrr/mm	
			soluble binder content and particle size distribution		
			maximum density		
			bulk density		
			bulk density of bituminous specimens by gamma rays		
			voids content		
			compactability		
			affinity between aggregate and bitumen		
			temperature measurement		
			water content		
			segregation sensitivity		
			particle loss of porous asphalt specimens		
			binder drainage		
			permeability of specimen		
			indentation using cube or Marshall specimens		
			indentation using plate specimens		
			susceptibility of bituminous materials to deform under load (Wheel Tracking)		
			indirect tensile strength (ITS) and indirect tensile strength ratio (ITSR)		
			resistance to fatigue		
			stiffness		
			dimensions of a bituminous specimen		
			stability and flow (Marshall test)		
			thickness of bituminous pavement		
			hot sand test for the adhesivity of binder on pre-coated chippings for Hot-Rolled-Asphalt (HRA)		
binder content by ignition					
resistance to de-icing fluids					
amount of foreign matter in reclaimed asphalt					
resistance to fuel					
crack propagation by semi-circular bending test					
saturation Ageing Tensile Stiffness (SATS) conditioning test					
low temperature cracking and properties by uniaxial tension tests					
ash content of natural asphalts					
interlayer Bonding					
friction after polishing					
resistance to scuffing					

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Slovenská národná akreditačná služba, Karloveská 63, P.O.BOX 74, 840 00 Bratislava



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4.	Road construction materials and roads	Unbound and hydraulically bound mixtures	compaction	VUCES-PTx/NSZ/rrrr/mm	1 time in 5 years
			cyclic load triaxial test for unbound mixtures		
			direct tensile strength of hydraulically bound mixtures		
			compressive strength		
			modulus of elasticity of hydraulically bound mixtures		
			workability		
			moisture condition value		
			California bearing ratio (CBR) and immediate bearing index (IBI)		
			degree of pulverisation		
			swelling test for soil treated by lime and/or hydraulic binder		
			frost susceptibility		
5.		Pavement layer	average depth of pavement surface macrotexture	VUCES-PTx/VV/rrrr/mm	
			irregularity		
			degree of compaction		
			bearing capacity		
			water permeability of compacted asphalt layers		
			adhesion of layers and tensile strength of surface layers		
6.		Concretes	consistence of fresh concrete by the slump test	VUCES-PTx/B/rrrr/mm	
			consistence of fresh concrete by determining the degree of compactability		
			consistence of fresh concrete - flow table test		
			density of compacted fresh concrete		
			air content of compacted fresh concrete		
			slump-flow and t ₅₀₀ time for self-compacting concrete		
			V-funnel flow time for self-compacting concrete		
			passing ability ratio for self-compacting concrete using the L box test		
			sieve segregation resistance of self-compacting concrete		
			passing ability, the flow spread and t _{500j} flow time of self-compacting concrete as the concrete flows through the J-ring		
			strength and hardness of hardened concrete		
			flexural strength of test specimens of hardened concrete		
			tensile splitting strength of test specimens of hardened concrete		
			density of hardened concrete		
			depth of penetration of water under pressure in hardened concrete		
			freeze-thaw resistance with de-icing salts – Scaling		
	secant modulus of elasticity in compression of hardened concrete				
	pull-out force of hardened concrete				
	ultrasonic pulse velocity				
	integrity (PIT)				
	bond strength by pull-of				
	compressive strength of young sprayed concrete				
	fineness by wet sieving				

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6.	Road construction materials and roads	Concretes	conventional dry material content	VUCES-PTx/B/rrrr/mm	1 time in 5 years
air void characteristics in hardened concrete					
moisture content, absorptivity and capillarity					
frost resistance of specimens of hardened concrete					
grindability of concrete - Böhme test					
resistance of cement concrete surface to water and defrosting chemicals					
measurement of dimensions of concrete products					
7.		Soils	water content	VUCES-PTx/Z/rrrr/mm	
bulk density					
particle density					
particle size distribution					
incremental loading oedometer test					
fall cone test					
unconfined compression test					
unconsolidated undrained triaxial test					
consolidated triaxial compression tests on water saturated soils					
effective shear strength (direct shear tests)					
coefficient of permeability					
consistency limits – liquid and plastic					
relative mature of cohesionless soils					

