

Accreditation scope

Name of the accredited subject: **U. S. Steel Košice – Labortest, s.r.o.**
Department of Cold Rolling Mill Laboratory
 Vstupný areál U. S. Steel, 044 54 Košice

Laboratory with a fixed accreditation scope.

ITEM	SUBJECT OF THE TEST		APPLIED METHOD		The others specification
	Subject	Property	Kind	Indication	
1.	Tin coated sheet	Tin coating mass	Coulometric	STN 42 0111 STN EN 10202 (PP1/ZT22-01)	
2.	Zinc coated sheet	Zinc coating mass	Gravimetric	STN EN 10346 (PP1/ZT22-02)	
3.	Tin	Arsenic, Aluminium, Bismuth, Iron, Cooper, Lead, Antimony, Cadmium, Zinc	OES	PP1/ZT22-03 (STN P ENV 12908)	
4.	Zinc	Iron, Cooper, Lead, Cadmium, Tin, Aluminium, Silicon, Magnesium, Antimony		STN EN 12019 (PP1/ZT22-04)	
5.	Waste waters	Iron	F-AAS	PP1/ZT22-06 (EPA 7000B)	
6.		Zinc		STN ISO 8288 (PP1/ZT22-08)	
7.		Overall chrome		STN EN 1233 (PP1/ZT22-09)	
8.	Ground, surface and waste waters	Mercury	CV-AAS	STN EN 1483 (PP1/ZT22-10)	
9.	Waste waters	Hexavalent chrome	Spectrophotometry	STN ISO 11083 PP1/ZT22-11	
10.	Organic coated steel sheet	Colour difference	Spectrophotometry	STN EN 13523-3 (PP1/ZT22-27)	
11.		Gloss		STN EN 13523-2 (PP1/ZT22-28)	
12.		Adhesion after indentation (cupping test)	Mechanical test	STN EN 13523-6 (PP1/ZT22-29)	Erichsen test
13.		Adhesion of organic coating after Cross-cut	Mechanical test	STN EN ISO 2409 (PP1/ZT22-30)	
14.		Resistance of organic coating to cracking on bending	Mechanical test	STN EN 13523-7 (PP1/ZT22-31)	T-bend test



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15.	Organic coated steel sheet	Resistance of organic coating against to organic solvent	Mechanical rubbing test using chemical	STN EN 13523-11 (PP1/ZT22-32)	MEK- test (methyl ethyl ketone)
16.		Thickness of organic coating	Mechanical test and measuring dimension	ASTM D 5796 STN EN 13523-1 (PP1/ZT22-33)	Optical- Microscopic measurement
17.	Electrical steel sheet	Magnetic polarisation Magnetic induction Factor of anisotropy	Measurement of the magnetic properties	STN EN 60404 – 2 STN EN 10106 (PP1/ZT22-34)	Measurement by Epstein frame
18.		Specific losses, Factor of ageing		STN EN 60404 – 2 STN EN 10106 (PP1/ZT22-35)	Measurement by Epstein frame
19.		Specific losses after aging		STN EN 60404 – 2 STN EN 10106 (PP1/ZT22-36)	Measurement by Epstein frame
20.		Thickness of insulation layer Thickness of insulation layer	Magnetic induction	STN EN ISO 2808 STN EN ISO 2178 SN 50265.2000-01 (PP1/ZT22-37)	
21.			Beta backscatter method	STN EN ISO 3543 (PP1/ZT22-38)	Source of beta radiation C 14
22.		Resistance of insulation layer	Measurement of insulation resistance	ASTM A-717 STN EN 60404-11 (PP1/ZT22-39)	Measurement by Franklin's equipment
23.		Fracture by reverse bend test	Mechanical test	STN EN ISO 7799 (PP1/ZT22-40)	Determination of bend number
24.	Zinc coated sheet	Surface roughness – parameter Ra (roughness average)	Measurement of roughness and waviness (profile method)	STN EN ISO 4287 STN EN ISO 3274 STN EN 10049 (PP1/ZT22-41)	
25.		Surface roughness – parameter R _{Pc} (peak count)		STN EN ISO 4287 STN EN ISO 3274 STN EN 10049 (PP1/ZT22-42)	
26.		Zinc coating mass	XRFA	STN EN ISO 3497 (PP1/ZT22-43)	

Note:

F-AAS – Flame atomic absorption spectrometry

CV-AAS – Cold vapor atomic absorption spectrometry

OES – Spark optical emission spectrometry

XRFA – Roentgen fluorescence spectrometry

