

Technical Sheet

Compostability according to EN 13432

Product : "Shield Steel Bio"

SGS-IF-Sample-No.: 200370695

Test	Criterion	Method	Result	Standard Target	
Biodegradability	CO ₂ Evolution	ISO 14855	87% pass	>90% in comparison with the positive control after 125 days (pass)	
Disintegration	Passing through sieve Ø 2 mm mesh	EN 13432	pass	≥ 90% (pass)	
Compost quality	Germination rate and Biomass production	OECD 208 (test organisms)	pass	No negative effects (pass)	
Heavy metals	11 selected heavy metals and elements must not exceed specified concentrations in the fresh product	ICP technique	pass	Element *)	mg/kg of dry Substance
				Zn [150 mg/kg]	1.1
				Cu [50 mg/kg]	<5**)
				Ni [25 mg/kg]	<5**)
				Cd [0,5 mg/kg]	<0.5**)
				Pb [50 mg/kg]	<1**)
				Hg [0,5 mg/kg]	<0.05**)
				Cr [50 mg/kg]	0.83
				Mo [1 mg/kg]	<0.5**)
				Se [0,75 mg/kg]	<1**)
				As [5 mg/kg]	<1**)
				F [100 mg/kg]	46

*) Values in brackets indicate the thresholds acc. EN 13432; **) lower than limit of detection;

All conditions of validity were met.

Remarks: All results reported indicate that the product "Shield Steel Bio" fulfils the conditions of the EN 13432. Individual results are presented in a separate report generated under accredited conditions of the DIN EN ISO/IEC 17025.

SGS INSTITUT FRESENIUS GmbH

- BioServices -

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Sebastian Vogel, Group Leader



Dr. Herbert Lebertz, Study Director