

BREITLÄNDER

Eichproben + Labormaterial GMBH

Hans-Sachs-Str. 12 - D-59077 HAMM

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RoHS
Standards

RoHS Directive

The standards you need

Reference standards to set and to control your XRF

CRMs

H 680 trace elements, high concentrations in PE, 100g finely divided material

H 681 trace elements, low concentrations in PE, 100g finely divided material

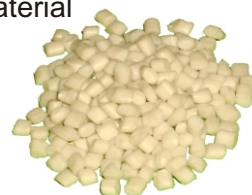
H VDA001-4 Cd in PE, set of 4 x 30g, finely divided material

B S004 Cr-(VI) in glass, pieces <10mm

NJ 8102a low concentration Cd, Cr + Pb in ABS, 25g granulate

NJ 8103b high concentration Cd, Cr + Pb in ABS, 25g granulate

NJ 8106a low concentration Cd, Cr + Pb in ABS, 25g disc 30x2 mm



RMs

matrix adapted standards for PE- and PVC analysis

Heavy Metals PE and PVC standards

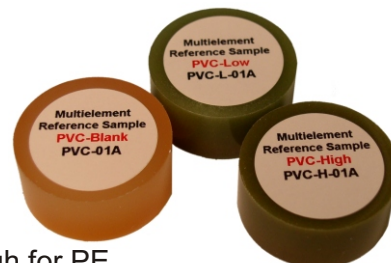
Solid discs diam. 31x13mm

IA MAT-PE

set of 3 standards: blank, low and high for PE

IA MAT-PVC

set of 3 standards: blank, low and high for PVC



Plastic standards for PE and PVC analysis

Finely divided samples*, 25g + 50g

AC PLPE3

set of 3 standards: blank, low and high for PE

AC PLPVC3

set of 3 standards: blank, low and high for PVC

AC PLPE9

set of 9 standards: for calibration for PE

AC PLPVC9

set of 9 standards: for calibration of PVC



**Solid discs of above standards under development*

Further RoHS standards available on request

Special silicate glass samples as XRF-monitors or drift control standards for RoHS applications

Discs diam. 40x5mm, also available in 32mm

BR ROHS1-3

set of 3 standards:
blank, low and high



Analytical Data (RM-Standards)

for WEEE/RoHS Requirements



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Article Number	mg/kg nominal data				
	Br	Cd	Cr	Hg	Pb

Heavy Metals PE-Standards

IA MAT-PE3/1	0	0	0	0	0
IA MAT-PE3/2	500	100	400	200	400
IA MAT-PE3/3	1100	300	1000	1099	1199

Heavy Metals PVC-Standards

IA MAT-PVC3/1	0	0	0	0	0
IA MAT-PVC3/2	499	100	400	200	399
IA MAT-PVC3/3	1099	301	1000	1100	1199

Plastic Standards for PE-Analysis

AC PLPE3/1	0	0	0	0	0
AC PLPE3/2	500	10	100	10	100
AC PLPE3/3	1000	150	1000	100	1000

Plastic Standards for PVC-Analysis

AC PLPVC3/1	0	0	0	0	0
AC PLPVC3/2	500	10	100	10	100
AC PLPVC3/3	1000	150	1000	100	1000

Plastic Standards for PE-Analysis

AC PLPE9/1	0	0	0	0	0
AC PLPE9/2	1000	100	50	100	1000
AC PLPE9/3	1000	100	1200	50	100
AC PLPE9/4	200	150	750	500	50
AC PLPE9/5	500	75	1000	100	1200
AC PLPE9/6	1370	10	500	750	750
AC PLPE9/7	860	5	100	500	100
AC PLPE9/8	320	50	500	1000	500
AC PLPE9/9	770	150	100	1200	500

Plastic Standards for PVC-Analysis

AC PLPVC9/1	0	0	0	0	0
AC PLPVC9/2	1000	100	50	100	1000
AC PLPVC9/3	1000	100	1200	50	100
AC PLPVC9/4	100	120	750	500	1200
AC PLPVC9/5	500	75	1000	100	500
AC PLPVC9/6	100	50	500	750	750
AC PLPVC9/7	750	5	100	500	100
AC PLPVC9/8	1200	50	500	1000	500
AC PLPVC9/9	500	150	100	1200	100

Glass Monitor Standards For XRF-Analysis*

BR-ROHS1/3	0	0	0	0	0
BR-ROHS2/3	1000	100	1000	0	1000
BR-ROHS3/3	5000	1000	5000	0	5000

*Matrix: SiO₂=53%, Na₂O=17%, CaO=10%, Al₂O₃=7%, MgO=6%, B₂O₃=4%, Sb₂O₃=1%