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Individual laboratory report for round 20

Environ Cientifica Ltda

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Lab # 23

acceptable range

Isocyanate	unit	Sample No.	fraction		Reported results **	Target value *	lower limit	upper limit	z score	Lab performance
MDI	µg	91	vapour	monomer	0,535	1,787	1,139	2,435	-5,80	NP
	µg	92	vapour	monomer	0,096	0,328	0,190	0,466	-5,04	NP
	µg NCO eq	95	aerosol	monomer	156	39,107	26,828	51,386	28,56	NP
	µg NCO eq			oligomers	100,8	28,152	11,487	44,817	13,08	NP
2,4 TDI	µg	93	vapour	monomer	0,55	2,195	1,865	2,525	-14,95	NP
	µg	94	vapour	monomer	0,032	0,135	0,105	0,165	-10,30	NP

***Target value** : established by taking all participating laboratories results which are performing within 25% of the expected value for vapour evaluation and within 35% for aerosols evaluation.

Limits : target value ± 3 standard deviations

Z score : (reported result - target value) / standard deviation

Lab performance : P : Analysis proficient , NP : non- proficient

Note: the acceptability of reported results is based on z-score.

**The results of vapours are reported in µg of isocyanate / sample

The results of aerosols are reported in µg of NCO eq. / sample

$$\mu\text{g NCO eq. / sample} = [] \times (\text{Mn} \times \text{N}) / \text{Mi}$$

[] : concentration of reported result (µg / sample)

Mn: molecular weight of NCO

N : numbers of isocyanate groups (function) / molecule

Mi : molecular weight of the isocyanate