

Individual laboratory report for round 21

Environ Cientifica Ltda  
 Sr Reginaldo Torrez  
 Rua Silva Jardim, 251  
 Centro- Sao Bernardo do Campo SP,  
 Brazil

Lab # 23

Isocyanate	unit	Sample No.	fraction		Reported results **	Target value *	acceptable range		z score	Lab performance
							lower limit	upper limit		
HDI	µg	96	vapour	monomer	1,877	2,69	2,089	3,283	-4,07	NP
	µg	97	vapour	monomer	0,393	0,498	0,333	0,663	-1,91	P
	µg NCO eq	100	aerosol	monomer	0,55	0,638	0,278	0,998	-0,733	P
	µg NCO eq			oligomers	21,33	22,1	7,917	36,222	-0,157	P
2,6 TDI	µg	98	vapour	monomer	3,913	3,68	2,817	4,551	0,792	P
	µg	99	vapour	monomer	1,036	0,945	0,711	1,179	1,17	P

\*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

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

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

M<sub>n</sub>: molecular weight of NCO

N : numbers of isocyanate groups (function) / molecule

M<sub>i</sub> : molecular weight of the isocyanate