

TEST REPORT

REPORT NUMBER : TURR120131405-EXPRESS

APPLICANT NAME Çemas Döküm San. A.Ş.

ADDRESS Ankara Asfaltı 12. km Kırşehir TURKEY
FAX NO :0386 234 83 49
Attention :Serdar Baran (sbaran@cemas.com.tr)SAMPLE DESCRIPTION :
Sample 1 One sample of B2 bearing cage
Sample 2 One sample of J12 bearing cage
Sample 3 One sample of A 407 25 0544-MBT metal item

DATE IN : 14 November, 2012

DATE OUT : 15 November, 2012

REQUEST : RoHS Test was performed on the items.

RESULTS : See attachment

CONCLUSION :

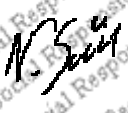
Testing Item	Conclusion
Sample 1	PASS
Sample 2	PASS
Sample 3	PASS

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The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and Interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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(A) Test Method Summary

Testing Item	Result			RoHS Limit (ppm)
	Sample 1	Sample 2	Sample 3	
Cadmium (Cd) Content	ND	ND	ND	0.01 % (100 ppm)
Chromium VI (Cr+6) Content (µg/cm ²) (for metal)	ND	ND	ND	
Chromium VI (Cr+6) Result (By spot test on metal)	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
Lead (Pb) Content	ND	ND	ND	0.1 % (1000 ppm)
Mercury (Hg) Content	ND	ND	ND	0.1 % (1000 ppm)
Flame Retardants				0.1 % (1000 ppm)
Polybrominated Biphenyls (PBB)	NA	NA	NA	
Monobromobiphenyl (MonoBB)	NA	NA	NA	
Dibromobiphenyl (DiBB)	NA	NA	NA	
Tribromobiphenyl (TriBB)	NA	NA	NA	
Tetrabromobiphenyl (TetraBB)	NA	NA	NA	
Pentabromobiphenyl (PentaBB)	NA	NA	NA	
Hexabromobiphenyl (HexaBB)	NA	NA	NA	
Heptabromobiphenyl (HeptaBB)	NA	NA	NA	
Octabromobiphenyl (OctaBB)	NA	NA	NA	
Nonabromobiphenyl (NonaBB)	NA	NA	NA	
Decabromobiphenyl (DecaBB)	NA	NA	NA	
Polybrominated Diphenyl Ethers (PBDE)	NA	NA	NA	
Monobromodiphenyl Ether (MonoBDE)	NA	NA	NA	
Dibromodiphenyl Ether (DiBDE)	NA	NA	NA	
Tribromodiphenyl Ether (TriBDE)	NA	NA	NA	
Tetrabromodiphenyl Ether (TetraBDE)	NA	NA	NA	
Pentabromodiphenyl Ether (PentaBDE)	NA	NA	NA	
Hexabromodiphenyl Ether (HexaBDE)	NA	NA	NA	
Heptabromodiphenyl Ether (HeptaBDE)	NA	NA	NA	
Octabromodiphenyl Ether (OctaBDE)	NA	NA	NA	
Nonabromodiphenyl Ether (NonaBDE)	NA	NA	NA	
Decabromodiphenyl Ether (DecaBDE)	NA	NA	NA	

Remarks : ppm=Parts per million based on dry weight of sample
 µg/cm²=Microgram per square centimetre
 mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
 <=Less than
 ND =Not detected NA =Not applicable NR =Not requested

(B) Test Method :

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd)Content	With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES	2 ppm
Lead (Pb)Content	With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES	2 ppm
Mercury (Hg)Content	With reference to IEC 62321:2008,by acid digestion and determined by ICP-OES	2 ppm
Chromium VI (Cr6+)(For non-metal)	With reference to IEC 62321:2008,by alkaline digestion and determined by UV-VIS spectrophotometer	1 ppm
Chromium VI (Cr6+)(For metal)	With reference to IEC 62321:2008,by SPOT TEST	1 ppm (IN TESTING SOLUTION)
Chromium VI (Cr6+)(For metal)	With reference to IEC 62321:2008 ,by boiling water extraction and determined by UV-VIS spectrophotometer	0.02 mg/kg with 50 cm ² (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321:2008,by solvent extraction and determined by GC/MS and HPLC	5 ppm

NOTE : The above limits were quoted from 2002/95/EC and amendment 2005/618/EC for homogeneous material.



Sample 1



Sample 2



Sample 3



END OF TEST REPORT