

To, ACOURETE CO., LTD

---

Certificate Number R06-0696

---

Certification Date 2006.11.06

# TEST REPORT

Mat Resin



360-1, W0RAM-DONG, UIWANG-SI GYEONGGI-DO, KOREA 437-757

TEL : +82-31-460-5506

FAX : +82-31-460-5509



# TEST REPORT

Certificate No.	R06-0696
Client	ACOURETE CO., LTD
Receipt No.	ACOURETE CO., LTD
Receipt No.	T06-0657
Test Date	2006. 10. 30 — 11. 03
Commodity	MAT RESIN
Test Standard	Oxygen Index ( ISO 4589-2:1996 )

Test Record

Test Report

..... 2 page  
Total 2 page

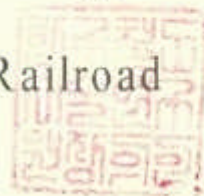
Uses: Quality Control

Note : This result of testing has been made for the commodities provided by the applicant. Except for the defined uses, this report should not be used.

Tester : Duck- Hee Lee  Technical Manager: Woo-Sung Jung 

(Date) 2006 11 06

(Certificated by) President of Korea Railroad  
Research Institute



· The test results of this report are authorized by the Korea Laboratory Accreditation Scheme that signed the Mutual Recognition Arrangement of the International Laboratory Accreditation Cooperation.

Certificate No. R06-0696

Sheet No. 2 / 2

# TEST REPORT



## Test Result

MAT RESIN / Oxygen Index (ISO 4589-2: 1996)

Test Result									
· $N_1$ series measurements									
$N_1$ series measurements ( 8.6.1 and 8.6.2 )					( 8.6.3 )				$C_f$
Oxygen Concentration (%)	50.0	49.8			49.8	50.0	49.8	50.0	50.2
Burning period (s)	>180				<180	>180	<180	<180	>180
Length burnt (mm)	>50				<50	>50	<50	<50	>50
Response	×				○	×	○	○	×
k value from ISO 4589-2 Table 4 : -1.17					Hence $C_f = 50.2$ $k = -1.17$				
· $OI = C_f + Kd = 50.2 + (-1.17 \times 0.2) = 49.97$									
· Verification of step size d% oxygen concentration									
$\sigma = \left[ \frac{\sum (c_i - OI)^2}{n-1} \right]^{1/2} = \left[ \frac{0.1133}{5} \right]^{1/2} = 0.15056$									
$\frac{2\sigma}{3} < d < \frac{3\sigma}{2} = 0.10037 < d < 0.22583 \Rightarrow OI \text{ is valid}$									
· Specimen Size : 10 mm × 120 mm × 2.3 mm(t)								<b>OI</b>	<b>50.0</b>