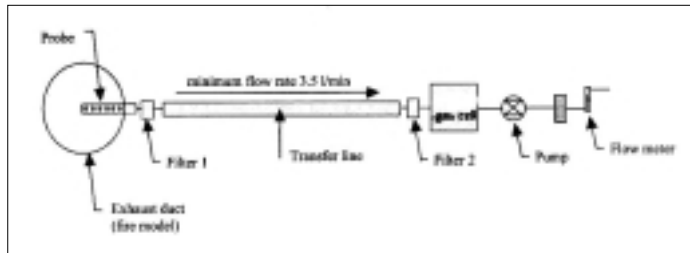


가				(Oxygen Consumption Principle)
(Prescriptive standard)	(Performance-based standard)	가		
	가			
(Heat Release Rate)		가		가
Bench-scale (Cone-calorimeter)		4	(KS) KS F ISO5660-1	
가				
FT-IR(Fourier Transform Infrared Spectroscope)	가			가
가				$q_A(t) = q(t)/A_s$
				$q(t) = (h_c/r_o)(1.10) C \frac{p}{T_e} \frac{X'_{O_2} - X''_{O_2}}{1.105 - 1.5X_{O_2}}$
ISO 5660-1()		1kg	13.1MJ	
			±5%	
			13.1MJ/kg O ₂	$q_A :$ (kW/m ²)
가		(C, H)		$q :$ (kW)
				$A_s :$ (m ²)
				$h_c :$ (KJ/kg)
				1.10 :

$r_o :$ ()
 $13.1 \times 103 \text{KJ/kg}$
 $C :$ ($\text{m}^{1/2} \text{kg}^{1/2} \text{k}^{1/2}$)
 $p :$ (Pa)
 $T_e :$ (K)
 $X_{O_2} : O_2$



2. 가

$X^{O_2} :$
 100kW/m^2
 (flux) 가
 (100mm x 100mm)

, , 가
 , 가
 , Heat flux (2). 가 가
 , FT-IR
 meter,
 (1).
 FT-IR 가
 FT-IR 가



1.

(Beam splitter)
 , 가
 , 가
 .
 : FTT, User's Guide for the Cone Calorimeter, 2001. 9
 가
 2002. 9
 : ()
 inani@kict.re.kr