

## Corning® FLORA® Substrates

### Benefits

Corning builds on more than 45 years of ceramic material and process knowledge with its fast light-off substrates. Through a unique material design that significantly reduces mass, FLORA® substrates can reach operating temperature more quickly than our standard Celcor® substrates to lower cold-start emissions. Discover best-in-class technical expertise from the company that invented cellular ceramic substrates and sets the standard for catalytic converters worldwide.

- Fastest light-off time for lowest HC emissions
- On-wall coating to maximize catalytic performance
- Can lower system cost by reducing precious metal use

### Applications

Close-coupled for light-duty gasoline

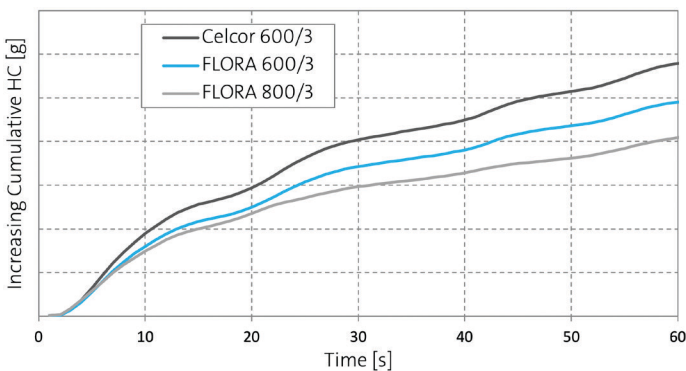
### Product Attributes

Product [cps/web]	Time to Light-off <sup>1</sup> [s]	Back Pressure <sup>2</sup> [kPa]	GSA [cm <sup>2</sup> /cm <sup>3</sup> ]
Celcor 600/2	51.5	1.8	36.2
FLORA 600/3	42.4	2.0	35.3
Celcor 750/2	55.3	2.4	40.2
FLORA 800/3	42.1	2.7	40.8
Celcor 900/2	59.2	2.9	43.7
FLORA 900/2	40.8	2.9	43.7

<sup>1</sup> Calculated on bare 188.41 x 73 mm part at 200 kg/hr ~ 800°C

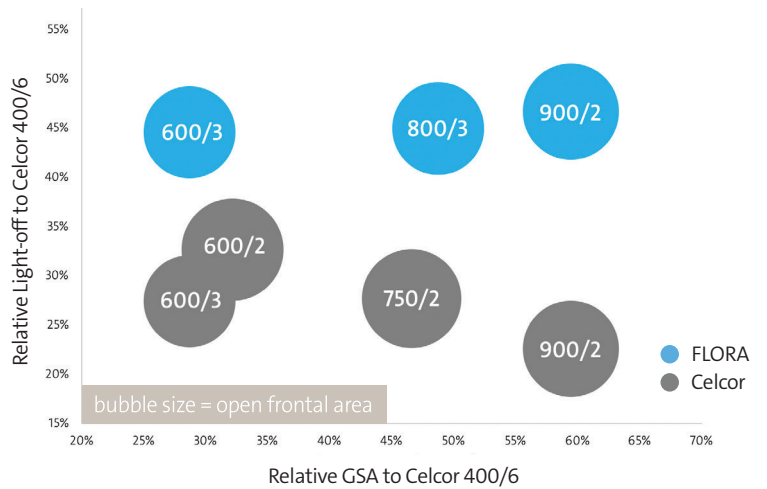
<sup>2</sup> Calculated on bare 188.41 x 73 mm part

### Cumulative HC Emissions



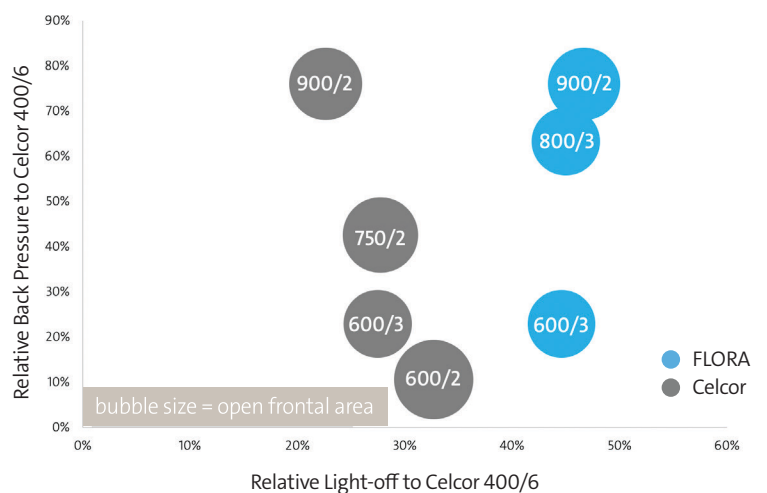
Engine bench testing on close-coupled, production-coated substrates. FLORA substrates significantly reduce HC emissions.

### Geometric Surface Area/Light-off



FLORA offers a clear upgrade path to reduce time to light-off and reduce emissions starting from any ultra-thin wall product.

### Back Pressure/Light-off



At any target back pressure level, FLORA has lower time to light-off than standard products.