

ABSTRACT OF THE DISCLOSURE

To provide an egg shell-type platinum-loaded alumina catalyst demonstrating
5 excellent performance in terms of catalyst life, an egg shell-type platinum-loaded
alumina catalyst includes: an alumina carrier; platinum dispersed and loaded on an outer
shell of the alumina carrier; and one or more second components selected from the
group consisting of vanadium, chromium, molybdenum, and phosphorus. Preferably,
the content of platinum is 0.05 to 5.0 wt% calculated as elemental platinum. The content
10 of each second component preferably is 0.1 to 5.0 wt% calculated as each element. The
alumina carrier has a surface area of 150 m²/g or more, a pore volume of 0.40 cm³/g or
more, and an average pore diameter of 40 to 300 Å, with pores having a pore diameter
in a range of ± 30 Å from the average pore diameter occupying 60 % or more of a total
pore volume.