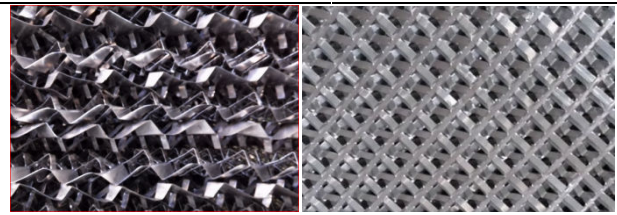


Addr: Building No. 8, Yard 7, Dijin Road, Haidian District, Beijing, 100095, P.R. China
Tel: +86-10-58317000 Fax: +86-10-58317090
Website: [Http://www.zehua-chem.com](http://www.zehua-chem.com)

Sepak[®] Structured Random Packing (SPR)

In 2013, Zehua developed and added a new class of packing termed “Sepak[®] Structured Random Packing”, or SPR, to the established Sepak[®] high performance packing suite of products. SPR combines advantageous features of both structured and random packing into an innovative and powerful mass transfer technology. With SPR packing, the discrete geometric shapes of random packing are produced in a structured format and can be installed in the same manner as structured packing.



Top and Side View of SPR

Hydraulic air/water tests conclude that SPR packing demonstrated lower pressure drop throughout varying liquid and vapor rates when compared to other commonly used structured and random packing types. Moreover, SPR packing resulted in the greatest efficiency in a gas absorption study (CO₂-NaOH system) when compared to several types of high performance random packings. The test results demonstrated that the advantages in capacity and efficiency are more pronounced at higher liquid rates, typical for gas absorption and high pressure applications.

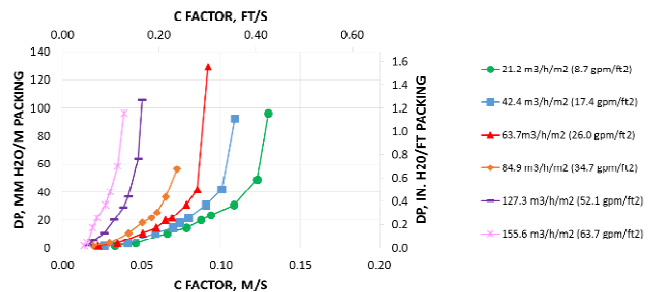
In summary, SPR Structured Random Packing has been proven via extensive testing to deliver superior capacity and efficiency compared to other structured and/or random packing types commercially applied today. In addition, SPR packing offers an economical value for high performance packing to end users by utilizing less material per volume compared to other random packing types, which results in cost savings.

There are currently (3) different types of SPR packing available, with serial number #1, #2 and #3.

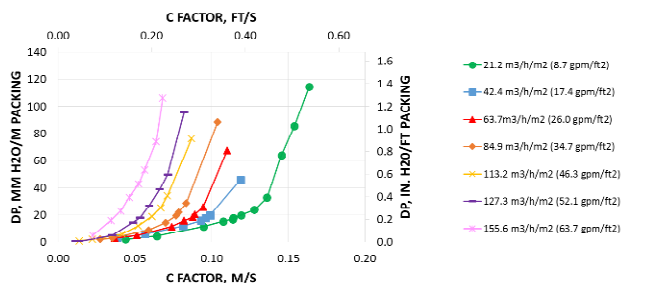
Type	Surface Area, m ² /m ³
SPR #1	220
SPR# 2	150
SPR# 3	100

Type (Sizes) of SPR Packing

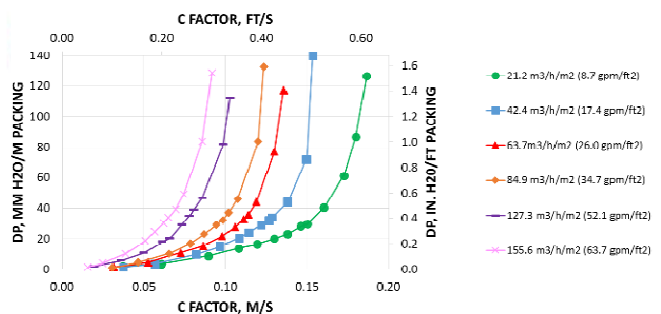
PRESSURE DROP FOR SPR #1 PACKING - AIR/WATER SYSTEM
600 MM ID TEST COLUMN



PRESSURE DROP FOR SPR #2 PACKING - AIR/WATER SYSTEM
600 MM ID TEST COLUMN



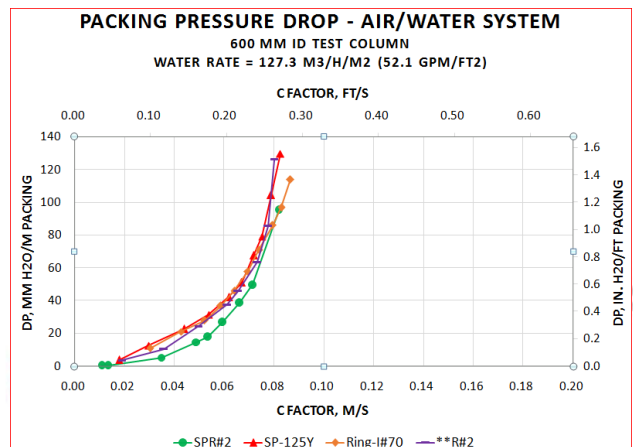
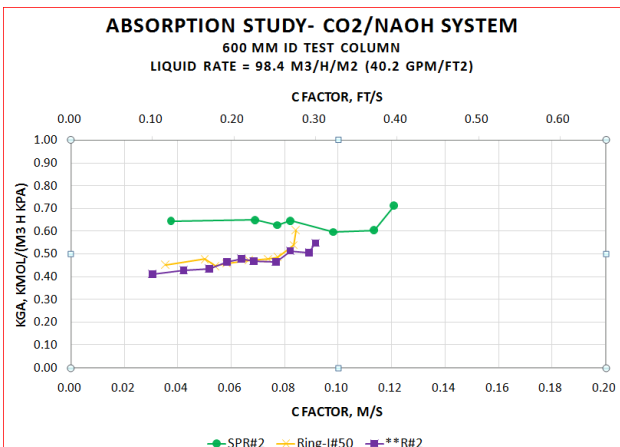
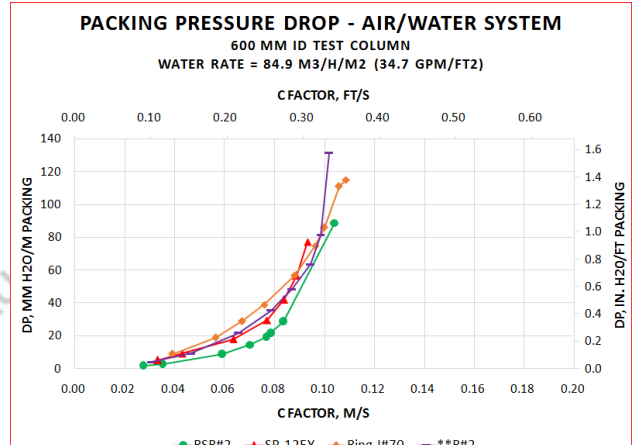
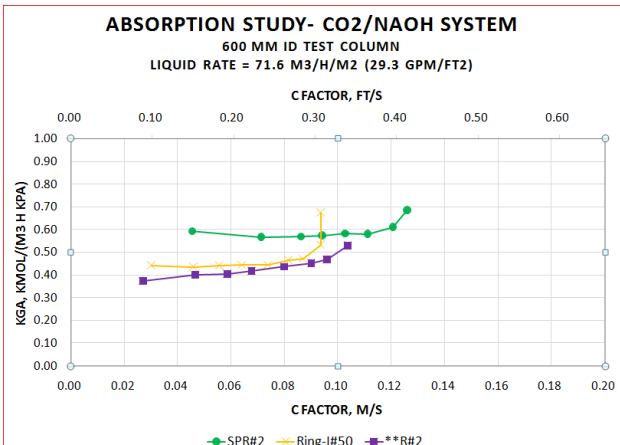
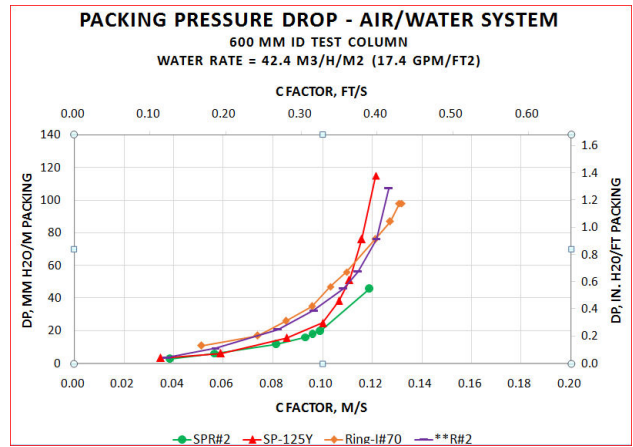
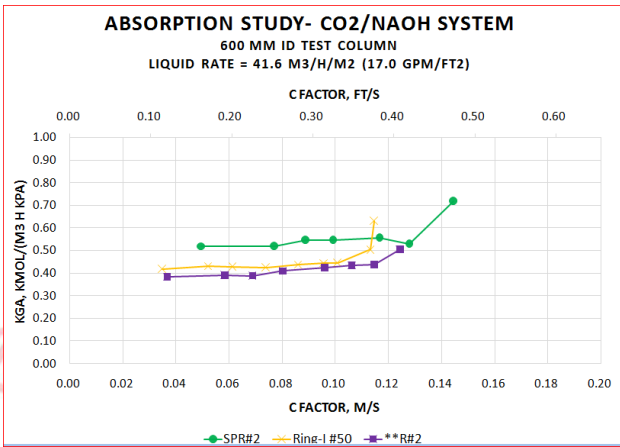
PRESSURE DROP FOR SPR #3 PACKING - AIR/WATER SYSTEM
600 MM ID TEST COLUMN



Pressure Drop of SPR#1-3

Addr: Building No. 8, Yard 7, Dijin Road, Haidian District, Beijing, 100095, P.R. China
Tel: +86-10-58317000 Fax: +86-10-58317090
Website: [Http://www.zehua-chem.com](http://www.zehua-chem.com)

Sepak® Structured Random Packing (SPR)



Absorption Test Result (CO₂-NaOH System)

Water Test (Pressured Drop) Result