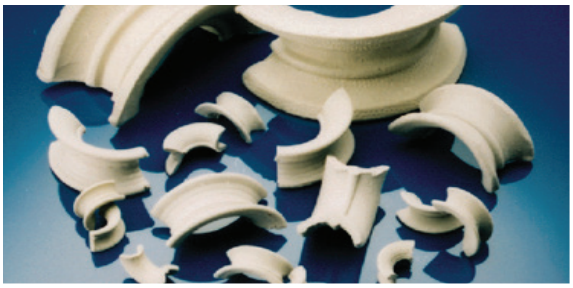
KNIGHT
MATERIAL TECHNOLOGIES

FLEXISADDLE®

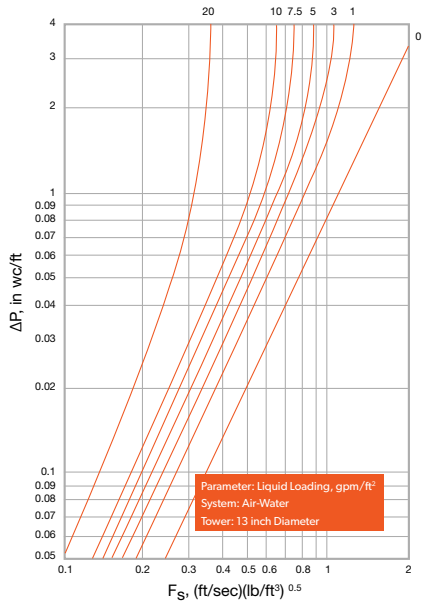
Ceramic Random Packing



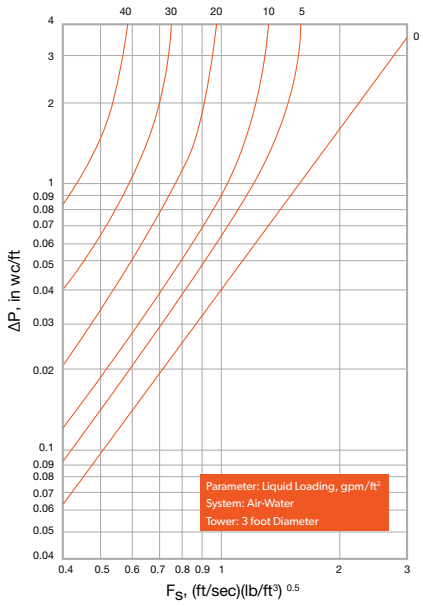
Knight Material Technologies manufactures ceramic FLEXISADDLE® Tower Packing in five sizes; ¾", 1", 1½", 2" and 3". Physical properties and characteristics of this packing can be found on the reverse side of this bulletin.

The following are capacity and pressure drop charts for ceramic FLEXISADDLE® random packing:

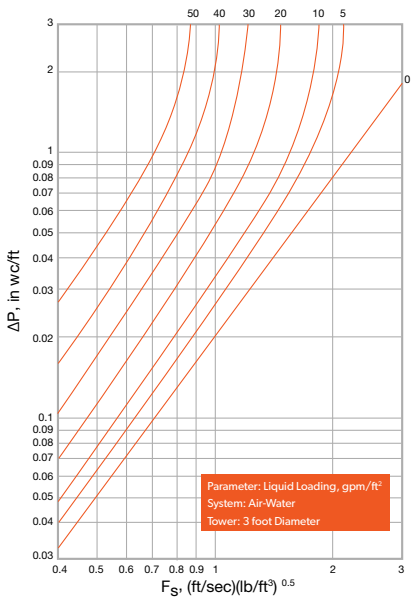
¾" CERAMIC FLEXISADDLE®



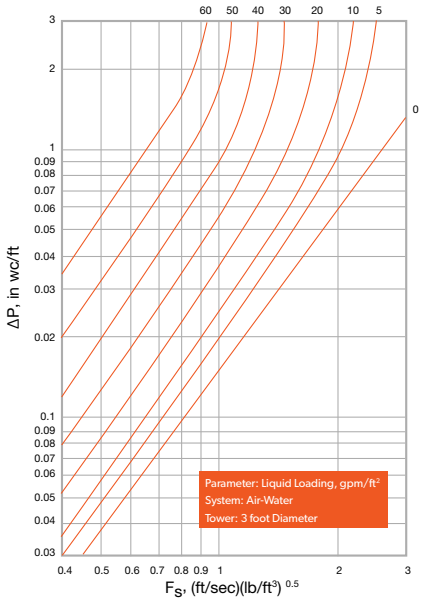
1" CERAMIC FLEXISADDLE®



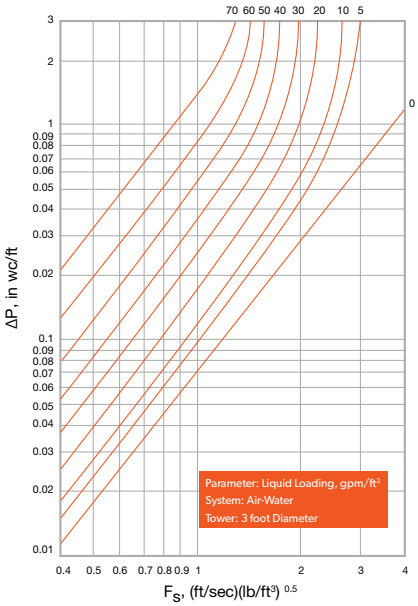
1½" CERAMIC FLEXISADDLE™



2" CERAMIC FLEXISADDLE®



3" CERAMIC FLEXISADDLE®



Also available in ceramic is our low pressure drop/high efficiency mass transfer device FLEXERAMIC® Structured Tower Packing. For more information on these other products, ask for Bulletin KCP-7 for the FLEXERAMIC® Tower Packing.

Definition of Terms:

$F_s = V_s\sqrt{\rho_v}$,ft/sec $(lbs/ft^3)^{1/2}$

Where **Vv** = Superficial vapor velocity, ft/sec or m/s

ρ_v = Vapor density, lb/ft^3 or Kg/m^3

TYPICAL PHYSICAL PROPERTIES

WATER ABSORPTION, %	<0.5%
ACID-RESISTING PROPERTY, % WT. LOSS	<1%
PACKING, CUBIC FEET PER BAG	1.0

TYPICAL PHYSICAL CHARACTERISTICS

	¾"	1"	1 ½"	2"	3"
NO. PCS./FT.^{3}	5000	2100	470	280	50
PACKAGING DENSITY, LB/FT.	45	43	39	35	35
FREE SPACE, %	68	70	73	76	76
SURFACE AREA, FT.^{2}/FT.^{3}	107	72	51	36	26

FLEXISADDLE® MEET THE FOLLOWING SPECIFICATIONS:

- ASTM C515 Chemical Porcelain
- ASTM C373 Water Absorption <0.5%
- ASTM C279 Acid Resistance <4% weight loss
- Pass DIN 51068 Thermal Cycling Breakage Test

APPLICATIONS

- SO_2, Bromine, and HCl Absorbers
- Bromine plants
  - Steaming-out towers
  - Scrubbers
- Sulfuric acid plants
  - Gas cooling towers
  - Drying towers
  - Absorption towers
  - Oleum towers
- Chlorine Drying Towers
- Acid gas removal systems
  Quench/scrubbers
- Chlorinated hydrocarbon plants
- Chlorine dioxide plants
- Steel and Coke plants
- RTO/RCO technology

KNIGHT
MATERIAL TECHNOLOGIES

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