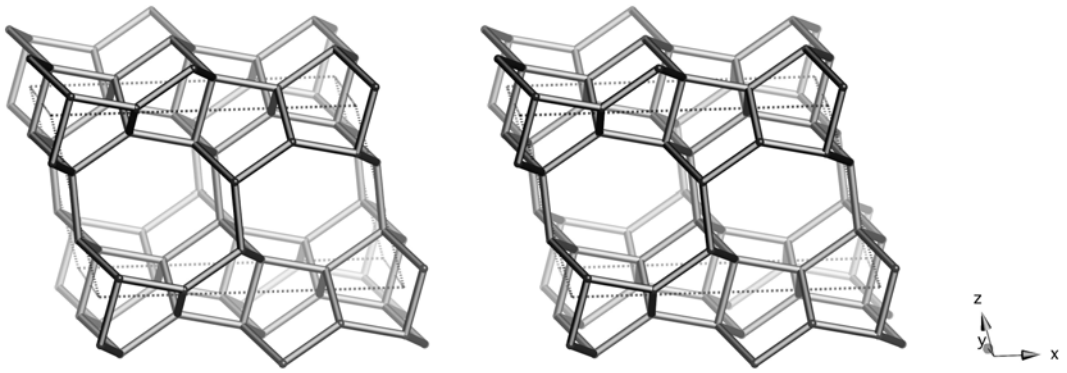
NSI *C2/m*

Framework Type Data



framework viewed along [010]

Idealized cell data: monoclinic, *C*2/*m*, *a* = 14.1Å, *b* = 5.3Å, *c* = 8.9Å, β = 105.4°

Coordination sequences and vertex symbols:

T_1 (4,*m*)	4	12	23	42	70	93	126	172	216	255	314	385	$5{\cdot}6{\cdot}5{\cdot}6{\cdot}5_2{\cdot}6$
T_2 (4,*m*)	4	12	26	43	64	99	133	161	210	274	318	364	$5{\cdot}6{\cdot}5{\cdot}6{\cdot}6_2{\cdot}8_2$
T_3 (4,*m*)	4	12	23	40	68	95	123	169	217	256	310	383	$5{\cdot}5{\cdot}5{\cdot}5{\cdot}6{\cdot}8_2$

Secondary building units: 5-1

Composite building units:

cas *bik*

Materials with this framework type:

*Nu-6(2)[1]

EU-20b (**CAS**-**NSI** structural intermediate)[2]

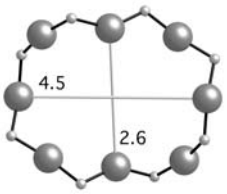
Type Material: Nu-6(2) NSI

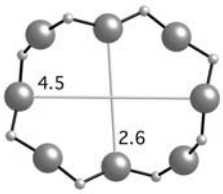
Type Material Data

Crystal chemical data: [$Si_{24}O_{48}$]-**NSI**
monoclinic, $P2_1/a$
a = 17.257Å, b = 4.988Å, c = 13.848Å, β = 106.1° (1)
(Relationship to unit cell of Framework Type: $a' = 2c$, $b' = b$, $c' = a$)

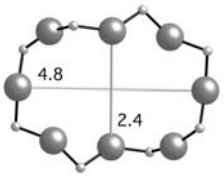
Framework density: 21 T/1000Å^3

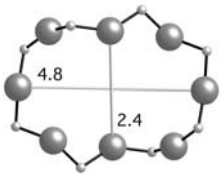
Channels: [010] **8** 2.6 x 4.5* | [010] **8** 2.4 x 4.8*





8-ring viewed along [010]





2nd 8-ring viewed along [010]

References:
(1) Zanardi, S., Alberti, A., Cruciani, G., Corma, A., Fornés, V. and Brunelli, M. *Angew. Chem., Int. Ed.*, **43**, 4933-4937 (2004)
(2) Marler, B., Camblor, M.A. and Gies, H. *Microporous Mesoporous Mat.*, **90**, 87-101 (2006)