



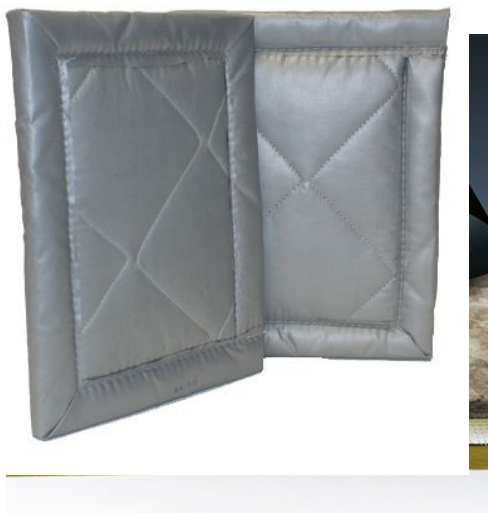
## SPEC DATA SHEET # OX-BSC 100

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# OX-BSC 100 BARRIER & QUILTED FIBERGLASS ABSORBER COMPOSITES

Oelex "BSC" composite by Oeler Industries, Inc. features a non-reinforced loaded vinyl noise barrier septum (middle) with a quilted fiberglass sound absorber on both sides. Ideally suited as an acoustical liner, the inner layer of quilted fiberglass decouples the barrier from the surface to improve its noise blocking ability while the outer layer adds sound absorption to the treated environment.

Acoustical panels were used to line the interior of large natural gas compressor station. The sound absorptive quilted fiberglass portion of the composite panel reduced the noise levels inside the building by 6 to 8 decibels and combined with the noise barrier septum and quilted fiberglass decoupler on the opposite side of the product, produced a 15 dB(A) noise reduction outside of the building.



## FEATURES:

- Maximum noise reduction by combining sound absorber and noise barrier
- Fire safe and low smoke emissions per ATSM E-84, Class 1
- Offered in two styles with a variety of combinations
- Available in curtain panels, bound or unbound rolls, custom fabrications or die-cut pieces
- Acoustical liners, jackets, wraps and panels
- Flexible composites conform to any shape
- Sound Absorption Rating to NRC-1.05
- Transmission Loss Rating to STC-32





Intelligent Acoustic Solutions

**SPEC DATA SHEET # NBCT-SERIES**



**APPLICATIONS:**

The most effective noise reduction products combine both sound absorption and noise barrier properties. Tested under strict compliance to appropriate ASTM standards, we offer the following results.

**SPECIFICATIONS:**

Specifications can be downloaded from our website [www.oeler.com/specs.html](http://www.oeler.com/specs.html) or call us at (412) 884-3000.

**Sound Transmission Loss (dB) Octave Band Center Frequency (Hz)**

| Product   | THK. | WT. | 125 | 250 | 500 | 1000 | 2000 | 4000 | STC |
|-----------|------|-----|-----|-----|-----|------|------|------|-----|
| BBC-13-2" | 2"   | 1.5 | 13  | 20  | 29  | 40   | 50   | 55   | 32  |
| BBC-13    | 1"   | 1.3 | 11  | 16  | 24  | 30   | 35   | 35   | 27  |
| BBC-14-2" | 2"   | 1.5 | 13  | 20  | 29  | 40   | 50   | 55   | 32  |
| BBC-14    | 1"   | 1.3 | 11  | 16  | 24  | 30   | 35   | 35   | 27  |
| BSC-25    | 2"   | 1.5 | 12  | 16  | 27  | 40   | 44   | 43   | 29  |
| BSC-25-2B | 2"   | 2.5 | 19  | 22  | 28  | 40   | 56   | 61   | 33  |
| BSC-31    | 2"   | 1.5 | 12  | 16  | 23  | 33   | 38   | 39   | 27  |

Per ASTM: E 90

**Sound Absorption Data-Absorber Component Random Incident Sound Absorption**

| PRODUCT      | OCTAVE BAND FREQUENCIES (Hz) |     |      |      |      |      |      | NRC |
|--------------|------------------------------|-----|------|------|------|------|------|-----|
|              | 125                          | 250 | 500  | 1000 | 2000 | 4000 |      |     |
| BBC 1" Thick | .12                          | .47 | .85  | .84  | .64  | .62  | .70  |     |
| BBC 2" Thick | .07                          | .27 | .96  | 1.13 | 1.08 | .99  | .85  |     |
| BBC 4" Thick | .21                          | .89 | 1.09 | 1.17 | 1.13 | 1.07 | 1.05 |     |
| BSC 2" Thick | .19                          | .99 | .96  | .80  | .57  | .33  | .85  |     |

Per ASTM: C423-81 and C423-90a

**Barrier Specifications:**

| Barrier Component | Style          | Weight Lb./Sq. Ft. | Thickness Inches | Composite |
|-------------------|----------------|--------------------|------------------|-----------|
| B-10 NR           | Non-Reinforced | 1                  | .107             | BSC       |
| B-5 NR            | Non-Reinforced | 1/2                | .042             | BSC       |
| B-20 NR           | Non-Reinforced | 2                  | .225             | BSC       |
| B-10 R            | Reinforced     | 1                  | .090             | BBS       |
| B-5R              | Reinforced     | 1/2                | .050             | BBC       |