

INTERIM

PRODUCT DATA SHEET

Actchem™ 45 Trueflow is a single component, air setting, castable, with an excellent abrasion resistance, which is self leveling, flowing easily around any obstruction, anchor system to form a complete monolithic lining.

Actchem™ 45 Trueflow uses the same **proven, unique Actchem binder system**, which permits a wide range of water addition, giving working times of 40 – 60 minutes. Early high strength and low abrasion is achieved at ambient temperatures. Mixing in a paddle mixer for 7 – 10 minutes produces a product, which is extremely easy to install, even in high ambient temperatures, thereby promoting greater production.

Typical applications

- Refineries (F.C.C.U. catalyst transfer lines, riser lines, cyclones).
- Fluidized Bed Boilers, steel plants, aluminium furnaces, incinerators.

| | | | |
|-----------------------------------|---------|--------------------------|------------------------|
| Service Temperature | 2300 °F | Water Required | 9-10% |
| Abrasion Loss (ASTM C-704) | <5cc | Material Required | 140 lb/ft ³ |

Chemical analysis

| AL₂O₃ | SiO₂ | Fe₂O₃ | TiO₂ | CaO | Other |
|------------------------------------|------------------------|------------------------------------|------------------------|------------|--------------|
| 48.5 | 46.5 | 0.34 | 0.37 | 3.16 | 1.13 |

Physical Properties

| Test Temperature (° F) | BULK DENSITY (pcf) | C.C.S. (psi) | M.O.R. (psi) | P.L.C. (%) | THERMAL CONDUCTIVITY (Btu.in/h.ft ² .F) | APP. POR. (%) |
|----------------------------------|------------------------------|------------------------|------------------------|----------------------|--|-------------------------|
| 230 | 127 – 143 | 8702 – 14504 | 1740 – 2611 | 0.00 | – | – |
| 660 | 134 – 140 | 17405 – 23206 | 1740 – 2901 | -0.1 to -0.3 | – | – |
| 1450 | 132 – 134 | 17405 – 23206 | 1740 – 2901 | -0.2 to -0.4 | – | – |

The data presented represents typical average results obtained by testing using ASTM or other acceptable procedures as required. They are subject to normal manufacturing variations and can not be used for specification purposes. Artech Technologies, LLC assumes no liability for the use of this data and provides no warranty expressed or otherwise for its accuracy.