

**Factory certificate of the SMARTFLEX series for TRGS 727 as well as  
„ATEX Directive“ 2014/34/EU**

SCHAUBURG Ruhrkunststoff GmbH has had spiral hoses of the type SMARTFLEX and FLEXADUX P2 CNC tested examined for their electrical properties when used in potentially explosive atmospheres.

The results for the use of the two series are shown clearly in the following Table 2. In general, the new version of the TRGS 727 shows that only hose diameters between 50 and 160mm are permitted for pneumatic transport.

In addition, with regard to the scope of Directive 2014/34 / EU ("ATEX Directive"), the following can be said for spiral hoses:

Spiral hoses are not "devices" or "components" within the meaning of Directive 2014/34 / EU.

However, it can be stated that, based on national and european regulations, the respective spiral hose types in the grounded state meet the electrostatic requirement for the intended use mentioned in Table 2.

This characteristic can be used in the risk assessment of equipment subject to Directive 2014/34 / EU ("ATEX Directive") and in which the spiral hoses are to be used.

Table 2: Clear presentation of the use of different types of spiral hoses

Application

Hose type	Pneumatic transport of combustible dusts (zone 20,21,22) inside	Aspiration (no zone 22 zone inside)	Conveyance of flammable liquids (inside: zone 0,1 and 2)	Conveyance of non-flammable liquids	Use in zone 1 and 2	Use in zone 0
SMARTFLEX 0,4	✓	✓	✓	✓	✓	✓
SMARTFLEX 0,6	✓	✓	✓	✓	✓	✓
SMARTFLEX 0,7	✓	✓	✓	✓	✓	✓
SMARTFLEX 1,0	✓	✓	✓	✓	✓	✓
SMARTFLEX 1,4	✓	✓	✓	✓	✓	✓
FLEXADUX P2 CNC	✗	✓	✗	✗	✗	✗