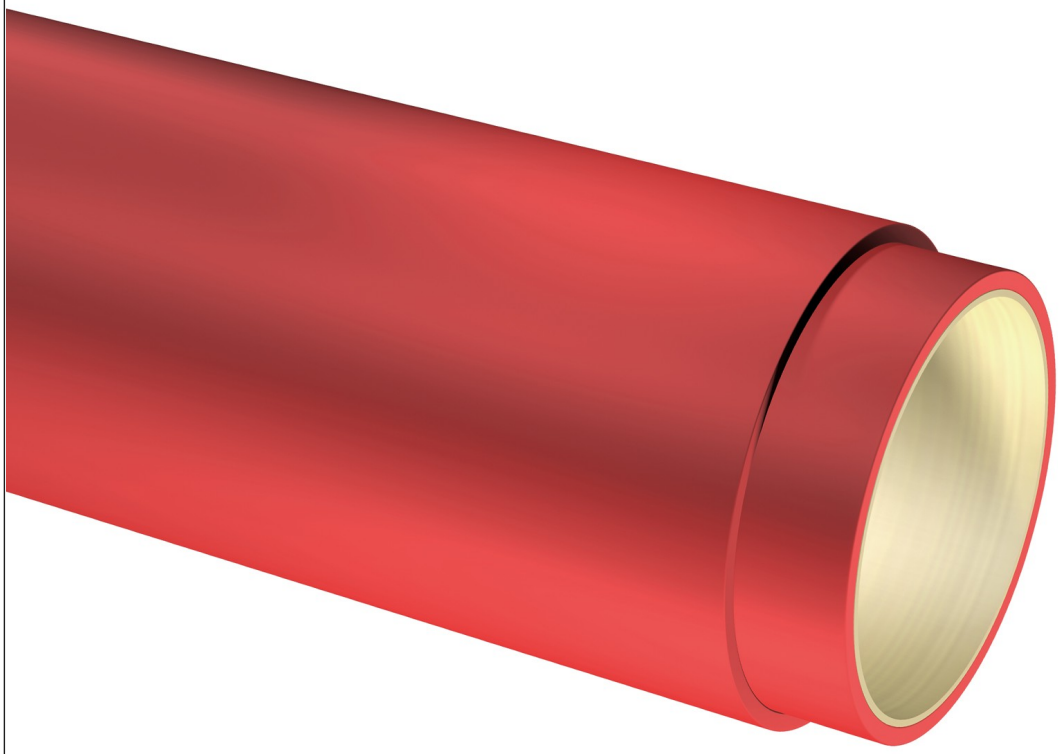
EsaRed

The only Atex certified, explosion-proof elastomer in the world



ATEX certified

E.S.A. System

hardness range 75-90

max load 15 [kg/cm]

max temp 150°C

Speedwell System

Elastomer designed for printing impression rollers with electrostatic assist (ESA) for printing on plastic film and paper. EsaRed eliminates the ionization effect typical of traditional black rubber compounds with carbon black. The only product certified in compliance with the ATEX Ex II 2G IIA T4 standard for use in Zone 1 issued as a non-flammable elastomer. The volumetric resistance, dynamic resistance and insulation values of EsaRed comply with the electrostatic assist system installed on the printing press and the type of application (Direct Charge, Top Loading and/or Side-Loading). For printing with solvent-bases ink, acetate, alcohol, MEK and 20% toluol.Cleaning with a blend of 75% ethyl alcool and 25% ethyl acetate.

The special Rossini conpounds are available both in Speedwell Sleeve configuration and Rubber roller.

structure

Rubber-coated roller with steel core and/or Speedwell sleeve with conductive or insulated fibreglass conical base depending on the application. EsaRed coating ground to measurement.

specifications

Colour	Red
Rubber-coated roller - Min/Max diameter	35 - 550 [mm] // 1.373 - 21.569"
Rubber-coated roller - Min/Max length including pins	150 - 5.000 [mm] // 5.882 - 196.078"
Speedwell Sleeve - Min/Max diameter	80 - 450 [mm] // 3.137 - 17.647"
Speedwell Sleeve - Min/Max length - Tolerance UNI:ISO 2768T1m	350 - 3500 [mm] // 13.725" - 137.255"
Coating thickness	10 - 35 [mm] // 0.392 - 1.373"
Min coating thickness to guarantee after grinding	8 [mm] // 0.315" - Grinding value at a minimum must be supplied by the client based on the possible adjustment of the printing press
Surface hardness - Tolerance +/-3 Shore A	75 - 90 Shore A
Maximum resistance to pressure	15 [Kg/cm]
Electrical resistance	Rollers and Speedwell Sleeves are designed and built according to technical specifications released by the manufacturers of ESA systems and the type of application of the electrostatic charge (Top Loading - Side Loading - Direct Charge)
Compressed air for sleeve assembly	12 - 20 [bar] // 174 - 290 PSI Minimum capacity: 700 [l//min] with air input having a free passage with D => 8[mm]
Maximum temperature resistance	150 °C / 302 °F
Working tolerance	External finishing with precision grinding (Ra=0.8) with T.I.R. < 0.03 mm] when measured on a mandrel with T.I.R. <= 0.005 [mm]
Resistance to chemicals	Alcohol - Acetates max 30% - Water - Ozone

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