

Question

What is the meaning of the writing "20 den" with textiles?

Answer

"20 den" says, that the weight of 9,000 m of the yarn is 20 g.

Old Unit

den stands for Denier. It is an unit of weight and denotes the weight in grams of 9,000 m of yarn.

New Unit

dtex is the latest unit and it is the weight of 10 km of yarn in grams. **dtex** is the abbreviation of decitex which denotes one tenth of **tex**. **tex** itself is the only standardized unit of yarn weights and is defined to be the weight in grams of 10 km of yarn. It is fixed in the standards ISO 1144 (1973) and DIN 60910 (Dec. 1985) (ISO = International Organization for Standardization, located in Geneva, Switzerland). To gain the same order of magnitude as **den**, **dtex** is used.

Areas of application

den is still commonly used in the UK and in the USA. **dtex** is primarily used in European and Asian countries.

Conversion

The value of **den** is the .9-fold of the value of **decitex**. E.g., 18 den correspond to 20 dtex.

Micro fiber

Generally speaking, if a unit of filament yarn is below 1 **den** it is called a microfiber.