

# Exclusively on STN®: PCTFULL with numeric property search feature



1124581

Doing a key word search in full-text databases usually results in large answer sets with hundreds or thousands of documents. With the recent reload of PCTFULL on STN, FIZ Karlsruhe introduced a new numeric property search feature, which allows for the first time to limit the search to, e.g., particles in the nanoscale ( $< 100$  nm), catalytic reactions at low temperatures (e.g.,  $-5$  to  $10^{\circ}\text{C}$ ), mixtures of a certain percentage range (e.g., 20–30%), and many more applications.

## Content and coverage

The patent full-text database PCTFULL covers the full-text of PCT (Patent Cooperation Treaty) published applications issued under the auspices of the World Intellectual Property Organization (WIPO) since 1978. At present, 185 member states participate in the PCT system. Records contain:

- bibliographic data including patent applicant, inventor, and legal representative information
- patent, application, and priority application data
- IPC, CPC, and EPC classification codes and searchable thesauri
- the individually searchable text of the complete documents, comprising titles, abstracts, detailed description, and claims
- English machine translations of all text fields for French, Spanish, German, Japanese, Chinese, Korean, and Russian
- clipped images (mostly from the front-page images) when available
- legal status data, citation, and family display formats from the INPADOCDB database.

## Unique numeric property search possibilities

The /PHP index in PCTFULL contains a complete list of field codes and related text for all physical properties available for numeric search. A search with the respective field codes will be carried out in all English-language text fields.

Highlights of the numeric search feature:

- more than 30 physical properties in approx. 400 units (most of them SI units)
- automatic unit conversion: A search in Kelvin will also generate hits with the respective value (ranges) in Degrees Celsius or Degrees Fahrenheit.
- proximity searching with numeric properties and keywords
- flexible data input (open or closed ranges, tolerances, exact values).

**Your benefits: Search more precisely – retrieve more relevant documents – save time and money!**

## Sample applications

### Temperature range (automatic unit conversion)

```
=> S 30-40 CELSIUS/TEMP
L1 136689 30-40 CELSIUS/TEMP
```

=> S 30-40 C/TEMP is also possible!

```
=> D KWIC
```

```
L1 ANSWER 1 OF 136689 PCTFULL COPYRIGHT 2011 LNU on STN
DETDEN . . .
temperature. The mixture was heated to 35°C for 3 h. . .
```

```
L1 ANSWER 3 OF 136689 PCTFULL COPYRIGHT 2011 LNU on STN
DETDEN . . .
formed hydrogels after incubating at 37°C for 24 hr as. . .
```

```
L1 ANSWER 12 OF 136689 COPYRIGHT 2011 LNU on STN
DETDEN . . .
to a temperature from about 50 degrees Fahrenheit to about 550 degrees
Fahrenheit. . . .
```

```
L1 ANSWER 32 OF 136689 COPYRIGHT 2011 LNU on STN
DETDEN . . .
temperature is within the range 263 Kelvin to 333 Kelvin.
```

### Wavelength of green AlGaInP LEDs

Proximities work just as with regular text.

```
=> S (LIGHT EMITTING DIODE OR LED) (S) AlGaInP (S) 500-570NM/SIZ
```

```
L1 24 (LIGHT EMITTING DIODE OR LED) (S) ALGAINP (S) 500-570NM/SIZ
```

```
=> D KWIC
```

```
L1 ANSWER 3 OF 24 PCTFULL COPYRIGHT 2011 LNU on STN
DETDEN
... The LED can be based on different materials, such as, without
limitation, GaN, AlGaIn, ..., AlInGaIn (emitting from 285 nm to 550nm),
GaP, GaP:N, GaAsP, GaAsP:N, AlGaInP (emitting from 550nm to 660nm) SiC,
..., (emitting in near infrared and infrared). ...
```

### Percentage to find formulations

```
=> S C11D0001-65+NT/IPC AND (?PHOSPHATE? (5A) PERCENT<0.5)
L9 8 C11D0001-65+NT/IPC AND (?PHOSPHATE? (5A) PERCENT<0.5 PERCENT)
```

Percentages are very useful for searching formulations of pharmaceuticals, pesticides or household chemicals.

```
=> D KWIC
```

```
L9 ANSWER 1 OF 8 PCTFULL COPYRIGHT 2011 LNU on STN
CLMEN. . .
STDC0076(b) from 1wt% to 25wt% of a non-alkoxyated anionic deterative
surfactant; STDC0040(d) from 0wt% to 4wt% zeolite builder; STDC0046(e)
from 0wt% to 4wt% phosphate builder; and STDC0040(f) from 0wt% to 10wt%
silicate salt.
```

```
L9 ANSWER 3 OF 8 PCTFULL COPYRIGHT 2011 LNU on STN
DETDEN
The alkaline agent to provide a pH (when diluted to 0.25 to 5% by weight
phosphates, metal carbonates, and metal hydroxides, particularly alkali or
alkaline metal hydroxides such as NaOH; and KOH. The weight percentage. .
```