

FUNCTIONAL GROUPS IN ORGANIC CHEMISTRY

Functional groups are the characteristic groups in organic molecules that give them their reactivity. In the formulae below, R represents the rest of the molecule and X represents any halogen atom.

● Hydrocarbons
 ● Halogen-containing groups
 ● Oxygen-containing groups
 ● Nitrogen-containing groups
 ● Sulfur-containing groups
 ● Phosphorus-containing groups



ALKANE

Naming: -ane
e.g. ethane



ALKENE

Naming: -ene
e.g. ethene



ALKYNE

Naming: -yne
e.g. ethyne



ARENE

Naming: -yl benzenes
e.g. ethylbenzene



HALOALKANE

Naming: halo-
e.g. chloroethane



ALCOHOL

Naming: -ol
e.g. ethanol



ALDEHYDE

Naming: -al
e.g. ethanal



KETONE

Naming: -one
e.g. propanone



CARBOXYLIC ACID

Naming: -oic acid
e.g. ethanoic acid



ACID ANHYDRIDE

Naming: -oic anhydride
e.g. ethanoic anhydride



ACYL HALIDE

Naming: -oyl halide
e.g. ethanoyl chloride



ESTER

Naming: -oate
e.g. ethylpropanoate



ETHER

Naming: -oxy-
e.g. methylpropane



EPOXIDE

Naming: -ene oxide
e.g. ethene oxide



AMINE

Naming: -amine
e.g. ethanamine



AMIDE

Naming: -amide
e.g. ethanamide



NITRATE

Naming: -yl nitrate
e.g. ethyl nitrate



NITRITE

Naming: -yl nitrite
e.g. ethyl nitrite



NITRILE

Naming: -nitrile
e.g. ethanenitrile



NITRO

Naming: nitro-
e.g. nitromethane



NITROS

Naming: -nitroso
e.g. nitrosobenzene



IMINE

Naming: -imine
e.g. ethanimine



IMIDE

Naming: -imide
e.g. succinimide



AZIDE

Naming: -yl azide
e.g. phenyl azide



CYANATE

Naming: -yl cyanate
e.g. methyl cyanate



ISOCYANATE

Naming: -yl isocyanate
e.g. methyl isocyanate



AZO COMPOUND

Naming: -azo-
e.g. azobenzene



THIOL

Naming: -thiol
e.g. methanethiol



SULFIDE

Naming: -sulfide
e.g. dimethyl sulfide



DISULFIDE

Naming: -disulfide
e.g. dimethyl disulfide



SULFOXIDE

Naming: -sulfide
e.g. dimethyl sulfoxide



SULFONE

Naming: -sulfone
e.g. dimethyl sulfone



SULFINIC ACID

Naming: -sulfinic acid
e.g. benzenesulfinic acid



SULFONIC ACID

Naming: -sulfonic acid
e.g. benzenesulfonic acid



SULFONATE ESTER

Naming: -yl sulfonate
e.g. methylbenzenesulfonate



THIOCYANATE

Naming: -thiocyanate
e.g. ethylthiocyanate



ISOTHIOCYANATE

Naming: isothiocyanate
e.g. ethyl isothiocyanate



THIAL

Naming: -thiol
e.g. ethanethiol



THIOKETONE

Naming: -thione
e.g. propanethione



PHOSPHINE

Naming: -phosphine
e.g. methylphosphine



Pogil Functional Groups On Organic Molecules

Annelies Wilder-Smith



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the btc thread has higher joint and bending strengths than ltc or stc as a result this thread is often used in deeper wells where higher hook loads are experienced thread compound must also be used to obtain a seal with btc btc is also run in horizontal wells where doglegs can cause high bending loads on larger casings

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1 to avoid cross threading stab pipe in a smooth controlled fashion ensuring the pipe is vertical when doing so continue to support and stabilise the pipe throughout the stabbing and make up operation 2 upon commencement of initial rotation use low rpm 5 rpm or below in order to ensure the pipe has not cross threaded during stabbing 3

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btc has a square thread with a flat root and crest a runout design and five buttress threads per inch each thread type is suited for a specific well condition stc is a good choice for shorter length casing applications that do not involve high axial loads or bending

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the two steps are identified as 1 the 75 percent shoulder width method 2 the mismatched outside diameter method the two methods are fully described in annex i 6 2 3 other considerations table 3 table a 3 have bevel diameters that cover a range from a suggested minimum od to a maximum od the tables also contain a reference id

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api compatibility the connection s buttress thread profile makes it fully compatible with standard api buttress connections by

being api compatible in both pin and box operators can use standard api accessories and draw on a wide range of threading and repair shops providing flexibility and efficiency

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inspection inspection criteria for all api connections is as outlined in api rp 5a5 ensure the complete thread area has no tears gouges or raised metal black crested threads within the complete thread area must not exceed 25 of the circumference of two 2 threads complete thread length is indicated in api rp 5b1

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btc buttruss threading this thread is designed to improve axial tensile or axial compressive load capacity and to provide leakage resistance ltc stc and btc are the same in appearance how to distinguish them that depends the outside diameter and application what s the use of ltc stc and btc

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api couplings and threads must comply with c 32 and c 33 or e 32 and e 33 below are two common api coupling dimensions btc for casing and eue for tubing api buttruss casing couplings dimensions btc casing coupling api external upset tubing coupling dimensions eue tubing coupling other requirements in api 5ct standard 1 appearance quality

specification for threading gauging and thread inspection of - May 03 2022

pipe threads api specification 5b fifteenth edition april 2008 effective date october 1 2008 specification for threading gauging and thread inspection of casing tubing and line pipe threads upstream segment api specification 5b fifteenth edition april 2008