

Knovel Library

obsah a nástroje | prémiové publikácie | prípadové štúdie

K čomu majú prístup inštitúcie na Slovensku

Príručky a databázy pre [technické a prírodovedné odbory](#) od 120 odborných spoločností a vydavateľstiev, napr. ASM International, Cambridge University Press, Elsevier, Emerald, IET, IGI Global, Oxford University Press, PennWell, Royal Society of Chemistry, Taylor & Francis a Wiley:



- [interaktívne analytické nástroje](#), ktoré sú súčasťou príručiek, napr. interaktívne tabuľky a grafy
- ďalšie šikovné nástroje:
 - [nové Knovel Data Analytics](#)
 - [Material Property Search](#)
 - [interaktívne rovnice](#)
 - [prevádzkač jednotiek](#)
 - [periodická tabuľka prvkov](#)

Ako sa dostanete ku Knovel Library:

- v internetovej sieti vašej organizácie
- cez osobný účet [My Knovel](#)
- cez mobilné zariadenia pomocou aplikácie [My Knovel ToGo](#)
- cez [Excel](#) [odkaz na .EXE súbor] a [Autodesk](#)

Chcete zistiť, **či máte prístup** alebo **požiadať o nastavenie pre vašu organizáciu**? [Pozrite sa sem](#) alebo [napíšte](#).

Ako si vytvoriť osobný účet

[Zaregistrujte sa](#) na stránkach Knovel Library. Použite e-mailovú adresu, ktorú vám pridela vaša organizácia. Umožní vám:

- **prístup** ku Knovel Library **aj mimo internetovej siete** vašej organizácie
- **ukladať** si vyhľadávania, texty, tabuľky a grafické informácie
- **zdieľať** odkazy s kolegami
- **vklaďať vlastné poznámky** do dokumentov

Prémiový obsah

Prístup ku Knovel Library si môžete rozšíriť o:

- AICHE/CCPS – Center for Chemical Process Safety
- ASM International Materials Collection
- ASME Boiler and Pressure Vessel Code 2001-2010, Section II
- DIPPR Project 801 (Full Version)
- Chemical Resistance Database – Plastics and Elastomers
- Knovel Polymer Matrix Composites Database

› Viac o e-zdrojoch na platforme [Knovel](#)

Prípadové štúdie

Inšpirujte sa, ako Knovel využívajú technici v praxi. Precvičíte si pri tom aj angličtinu.

The engineering problem 1

A Resident Engineer for one of the biggest chemical multinationals in the US is in charge of **finding cost saving opportunities in the plant**. In one instance, a production line changed and the process equipment needed to be updated. The engineer was tasked with repurposing 3 previously used pressure vessels, to save the company more than \$300K in CAPEX equipment. By using Knovel, the engineer was able to quickly calculate the vapor pressure of Octafluoropropane - C3F8 - and confirm that the tanks were rated for the new process.

How would you solve it?

There are two ways to solve this problem:

1. With access to [Yaws' Handbook of Antoine Coefficients for Vapor Pressure](#), search for [octafluoropropane](#) in the database and use the equation plotter to find [vapor pressure](#) at varying degrees.
2. The [Antoine's equation](#) worksheet can be used to achieve the same results. In the interactive equation the coefficients and the temperature can be inputted to calculate the vapor pressure. The coefficients can be easily found by searching [C3F8 Antoine coefficient](#) in Knovel.

The engineering problem 2

A large engineering firm had won a bid for a series of water works for a major metropolitan area in the US, including a Sodium Hypochlorite and Fluoridation facility. Some of the work was subcontracted, and the day after the tender had been published, one of the potential subcontractors indicated that **the specification for the joint for stainless steel pipes with a diameter <30" was missing**. This is a critical spec as welding joints burns the protective lining that prevents corrosion, and omitting the specification can increase the costs during construction. In order to publish an addendum, the Engineer in charge of the tender had to quickly identify a suitable joint that did not involve welding.

How would you solve it?

Can you solve the challenge above following the steps below?

1. Find basic information about [Sodium Hypochlorite](#).
2. Find materials and their properties by executing a [Data Search for Sodium Hypochlorite corrosion rate](#).
3. Search [Polyurethane coating for stainless tubes](#).
4. Get to know more about [pipe joints](#).

Otázky?

Školenie? Nefunguje prístup? Prístup k prémiovým titulom? Napíšte alebo zavolajte:



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