

Note: 000070

Overview

Number	000070
Description	ISO 6578 - LNG: Intermediate Parameter Rounding – Additional Option
Version	2 from 13.07.2017
Status	Released to Customer
Language	EN
0 0	
Responsible	Markus Seng
Responsible Product	
·	Markus Seng

Symptom

ISO 6578 defines the density calculation for LNG. With this note, an additional rounding option for the molar volumes V_i for such calculations is delivered. The current rounding options had been delivered as an advanced development with note 000064 and are contained in BCS 3.0 already.

Cause

Ambiguity in ISO 6578 calculation example.

Solution

Advanced development: LNG conversion groups can now be configured with four rounding options:

QuantityWare

Change View "QCI: L				roups": Details	
😚 New Entries 🗈 🗟 🔊	a 🗈 🖽				
Dialog Structure	Base conversion units of measure Heating value (volume) UoM [XJX] Base conversion UoM - volume			Ŷ	
 SAP QCI & MQCI Moi Link Reading Group t 	Heating value (molar) UoM		4JL	Base conversion UoM - energy	
 Assign Additional Uni Assign Set ID for Physical Set ID for	Heating value (mass)		1JK KGV	Base conversion UoM - mass Base conversion UoM - LNG vol.	
Asign Sec 10 for Fit	Density (absolute) UoM Wobbe index UoM		4JM	Base molar mass (weight) UoM	
	Compression factor cal	culation standard:	units o	of measure	
	Standard Heating value UoM			Standard temperature UoM	
	Standard Density Uc	М		Standard pressure UoM	
	LNG settings				1
	LNG base temperate	ure -161	.00	LNG base density UoM	
:	LNG base temp. Uol	м	CEL	LNG base heat.val.(liq.) UoM	
	Vapor correction	Apply simplified	equati	on ISO 6578, UI parameter required	
	Vapor data Use ISO 6578 me		hethane molweight for vapor calculations, Z = 1		. 1
	Vap.Liq.to Liq.	Convert liquid L	NG voli	umes via liquid densities	
	LNG comp. data	Use ISO 6578:1	991 A	nnex B & C data & calculation model	
	Round k1 & k2	Round k1 & k2	as defi	ned in ISO 6578 examples	
	Round V c Do not round V_c			- 1	
	Round V i			und x_i × V_i & sum of x_i × V_i is defined in ISO 6578 examples	
	Rounding settings for r			× V_i & sum of x_i × V_i	
	Round base source	-9		< V_i. Round sum of x_i × V_i (ISO)	
	Round intermedia	Round V_i . Do	not ro	und x_i × V_i & sum of x_i × V_i	
	Round base targe	t			
	Round quantities	and parameters w	/ithin n	nodel using statistician's rounding	~
	\rightarrow			<	>

Transport Reference

SAP Release	Transport	File Name	Notes
ECC600	QOIK900279	NOTE-00070-600.SAR	

Validity

SAP Release	From SP	To SP	In SP Shipment
ECC600	BCS 3.0	BCS 3.0 CSP01	BCS 3.0 CSP01
S/4 HANA	0	0	BCS 3.0