

# Flare Stack Calculation Sheet

## Simple Approach

Title : HP Flare Calculation	Date of Calculation : ###
Project No : 1131/SKPI-SKPP-2006	Calculate By : Erwin Apriandi

1 Description	Symbol		Unit	
2 Flowrate		75.010	MMscfd	
3		68.501.944	m <sup>3</sup> /hr	
4		24.584	m <sup>3</sup> /s	
5 Mass Flow	W	90123.000	kg/hr	
6 Mol Weight	M <sub>w</sub>	24.070		
7 Pressure at Flare Tip	P <sub>2</sub>	124.000	kPa	
8 Flowing Temperature	T	283.900	K	
9 Compressibility factor	z	1.000		
10 Ratio of Specific Heat	k	1.210		
11 Mach No		0.450		
12				
13				
14 Flare Tip ID		0.404	m	
15				
16				
17 Heat of combustion		47140.000	kJ/kg	
18 Heat Liberated	Q	1180110.617	kW	
19 Flame Length	L	60.000	m	approx
20				
21 Wind velocity	U <sub>w</sub>	14.900	m/s	Fig 8 & 9
22 Flare Tip velocity	U <sub>f</sub>	192.276	m/s	
23	U <sub>w</sub> /U <sub>f</sub>	0.077		
24				
25				
26	ΣΔy/L	0.460		approx
27	ΣΔy	27.600	m	Fig 10
28				
29	ΣΔx/L	0.770		approx
30	ΣΔx	46.200	m	Fig 10
31				
32				
33 Fraction Radiated Heat	F	0.300		
34	τ	1.000		
35 Allowable Radiation	K	6.310	kW/m <sup>2</sup>	
36 Safe Distance to Flame Centre	D	66.836	m	
37				

# Api Rp 521 Flare Kalq12

**Clemens Wendtner**



**Api Rp 521 Flare Kalq12:**

The book delves into Api Rp 521 Flare Kalq12. Api Rp 521 Flare Kalq12 is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Api Rp 521 Flare Kalq12, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Api Rp 521 Flare Kalq12
- Chapter 2: Essential Elements of Api Rp 521 Flare Kalq12
- Chapter 3: Api Rp 521 Flare Kalq12 in Everyday Life
- Chapter 4: Api Rp 521 Flare Kalq12 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Api Rp 521 Flare Kalq12. This chapter will explore what Api Rp 521 Flare Kalq12 is, why Api Rp 521 Flare Kalq12 is vital, and how to effectively learn about Api Rp 521 Flare Kalq12.
3. In chapter 2, the author will delve into the foundational concepts of Api Rp 521 Flare Kalq12. The second chapter will elucidate the essential principles that must be understood to grasp Api Rp 521 Flare Kalq12 in its entirety.
4. In chapter 3, the author will examine the practical applications of Api Rp 521 Flare Kalq12 in daily life. This chapter will showcase real-world examples of how Api Rp 521 Flare Kalq12 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Api Rp 521 Flare Kalq12 in specific contexts. This chapter will explore how Api Rp 521 Flare Kalq12 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Api Rp 521 Flare Kalq12. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Api Rp 521 Flare Kalq12.

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