

# Project 3: First report

Group 1254

1st of October, 2014

# Contents

Introduction . . . . .	1
------------------------	---

## Introduction

We were asked to answer a series of questions about the mass production of ammonia in a chemical plant. Those questions were:

1. what are the quantities of nitrogen and hydrogen needed to produce 1000 t of ammonia per day?
2. what is the flow rate of water necessary to maintain the reaction at 500 K, knowing that the water enters the reactor at 25 °C and leaves at 90 °C?
3. how are the nitrogen and hydrogen used in the reaction going to be produced?