WELDPULSE

ARC EDITION

WeldPulse®

Welding Procedure Ready

ARC EDITION

An all-in-one welding software

A welding software by PetroStreet

Contents

Short intro

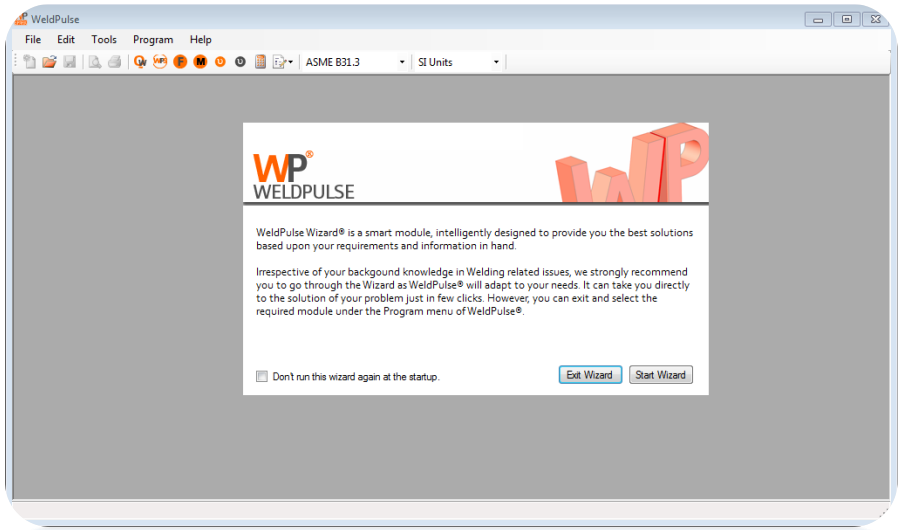
WeldPulse® Arc Edition is an all-in-one package for welding in petrochemical industries. Arc Edition is specifically designed for companies in order to manage welding procedures and welders, enabling engineers to extract and store welding data along with taking day-to-day welding decisions. It helps in taking welding decisions and provides you a competitive edge in your welding career.

"WeldPulse Splash Screen"

WeldPulse Wizard®

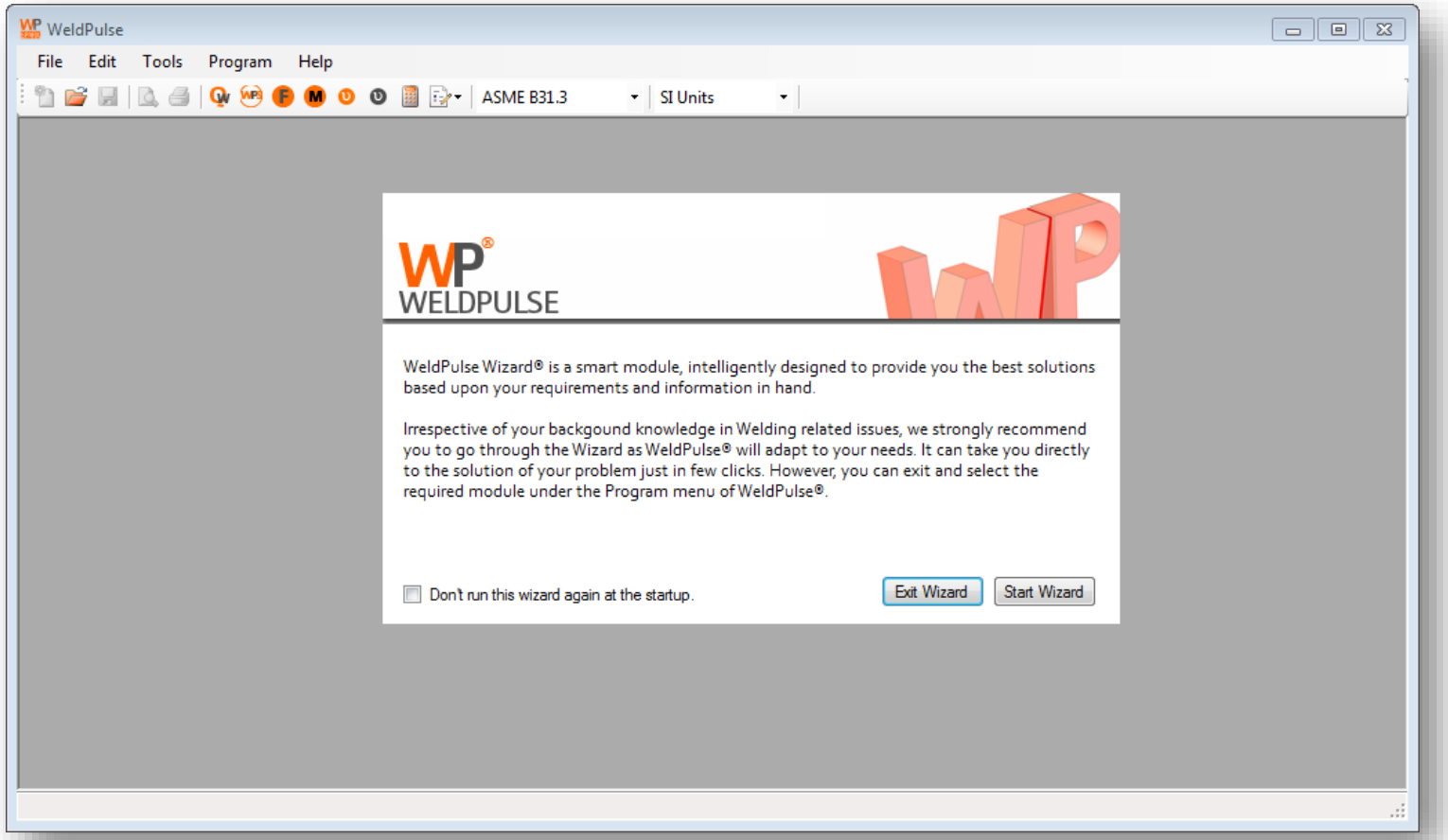
WeldPulse Wizard® is designed to enable user setting up his welding profile when the program gets a first run. It also facilitates in getting the right module according to the needs.

It helps the user in customizing the program according to his skill level and needs.



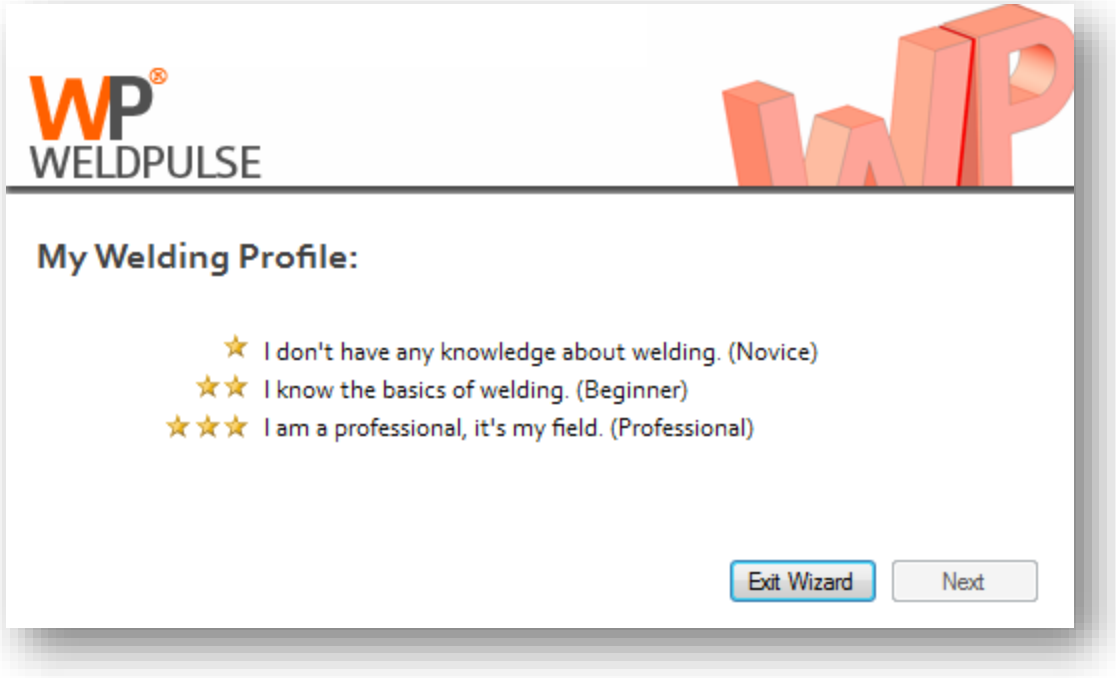
WeldPulse Wizard®

When you run WeldPulse® the following window appears:



WeldPulse Wizard®

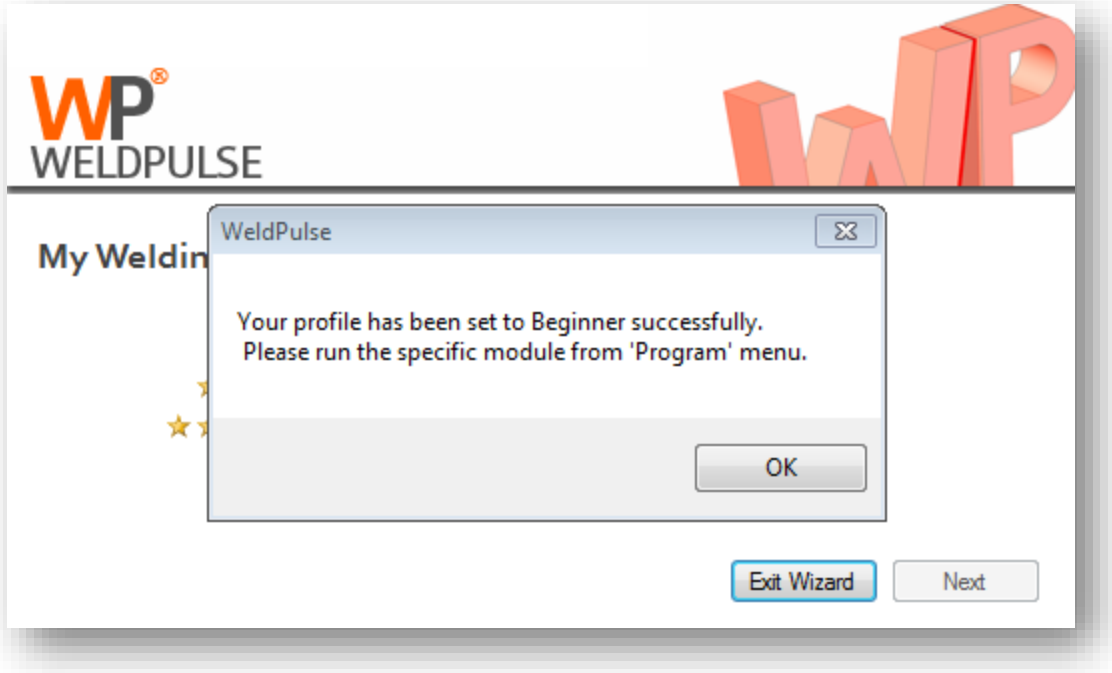
When you click **Next**, it takes your welding profile



Profile settings customizes the inputs and results suiting your experience level in welding. Therefore, it is recommended to set your profile.

WeldPulse Wizard®

Following window appears after setting the profile:

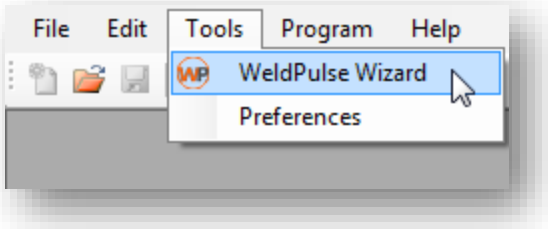


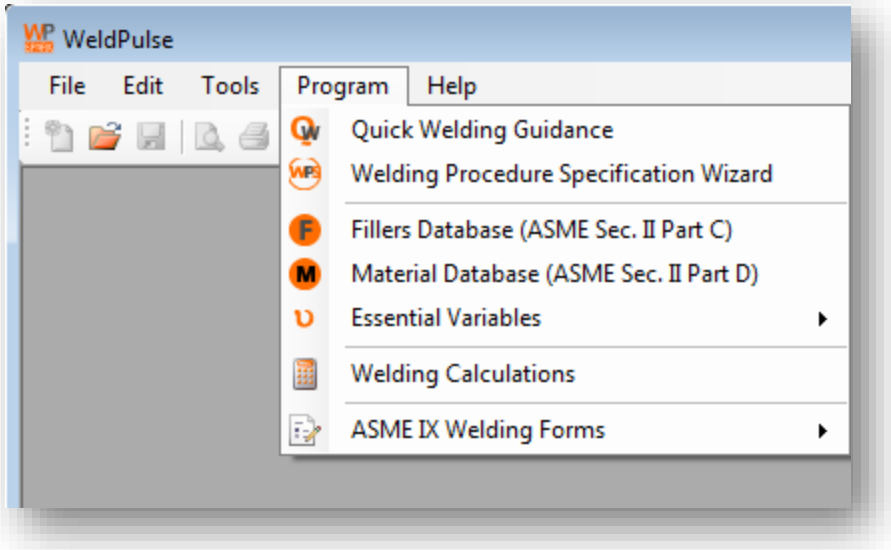
Click **OK** to move forward

WeldPulse Wizard®

Blank screen will appear as software has assumed your profile settings.

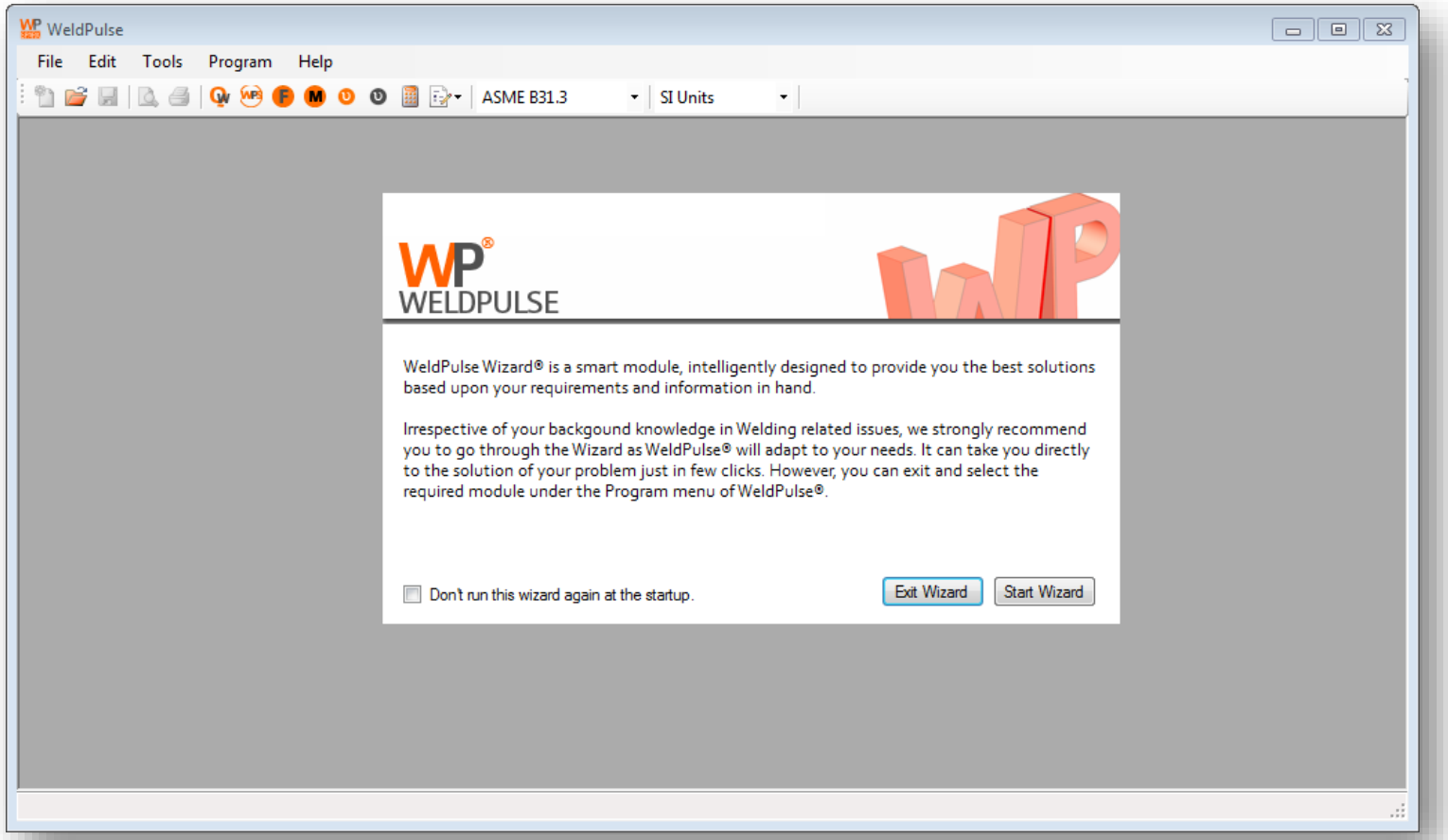
From here on, either you run the **WeldPulse Wizard®** from **Tools** menu or select any module from **Program**





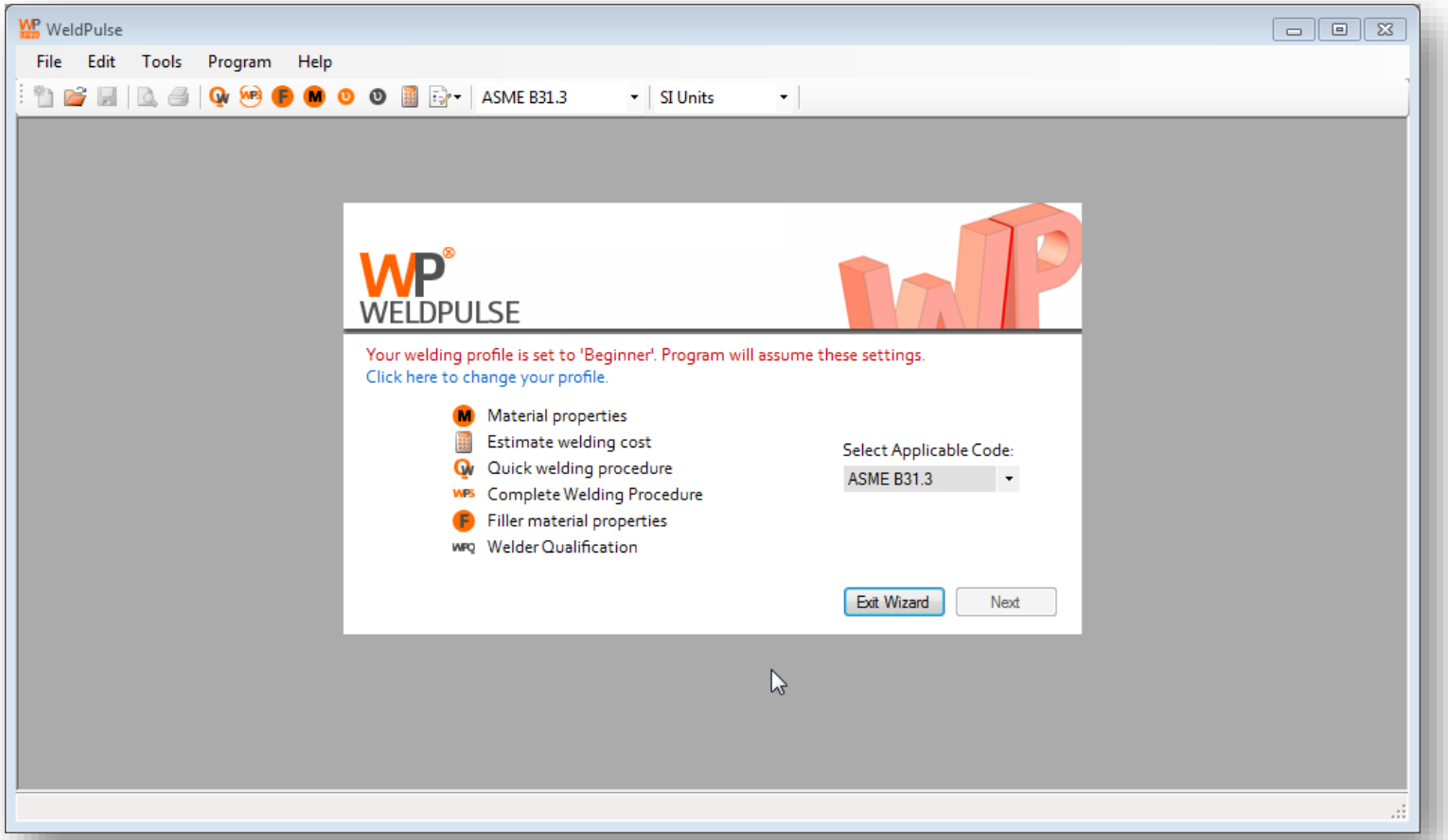
WeldPulse Wizard®

We continue with WeldPulse Wizard®. Click **Start Wizard**



WeldPulse Wizard®

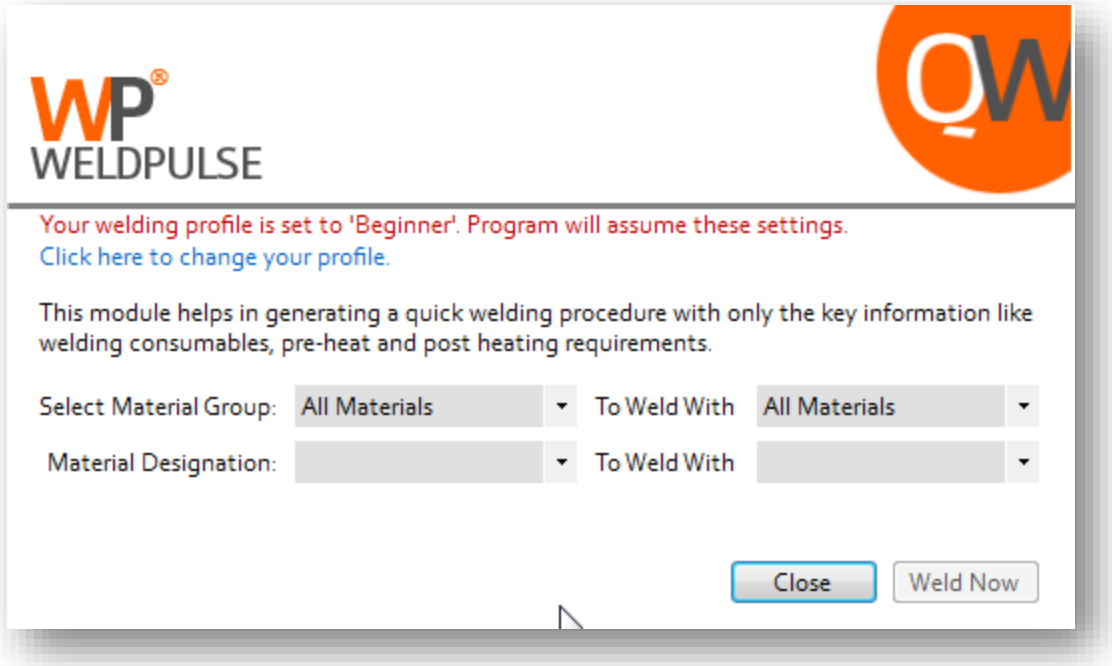
WeldPulse® presents you with modules suiting your welding profile



A welding software by PetroStreet

WeldPulse Wizard®

For example, click **Quick Welding Procedure**



Note: Modules including WPS, PQR, Ferrite Check, CE, HI , Properties, procedure & performance qualifications do not have any impact on profile settings.

WP® WELDPULSE

ARC EDITION

QuickWeld®

A welding software by PetroStreet

WELDPULSE

QuickWeld®

ARC EDITION

QuickWeld® is designed to provide you quick welding guidelines just by providing the materials information. You need to know about the construction code, materials to be welded and their joint thickness to make best use of QuickWeld

Inputs

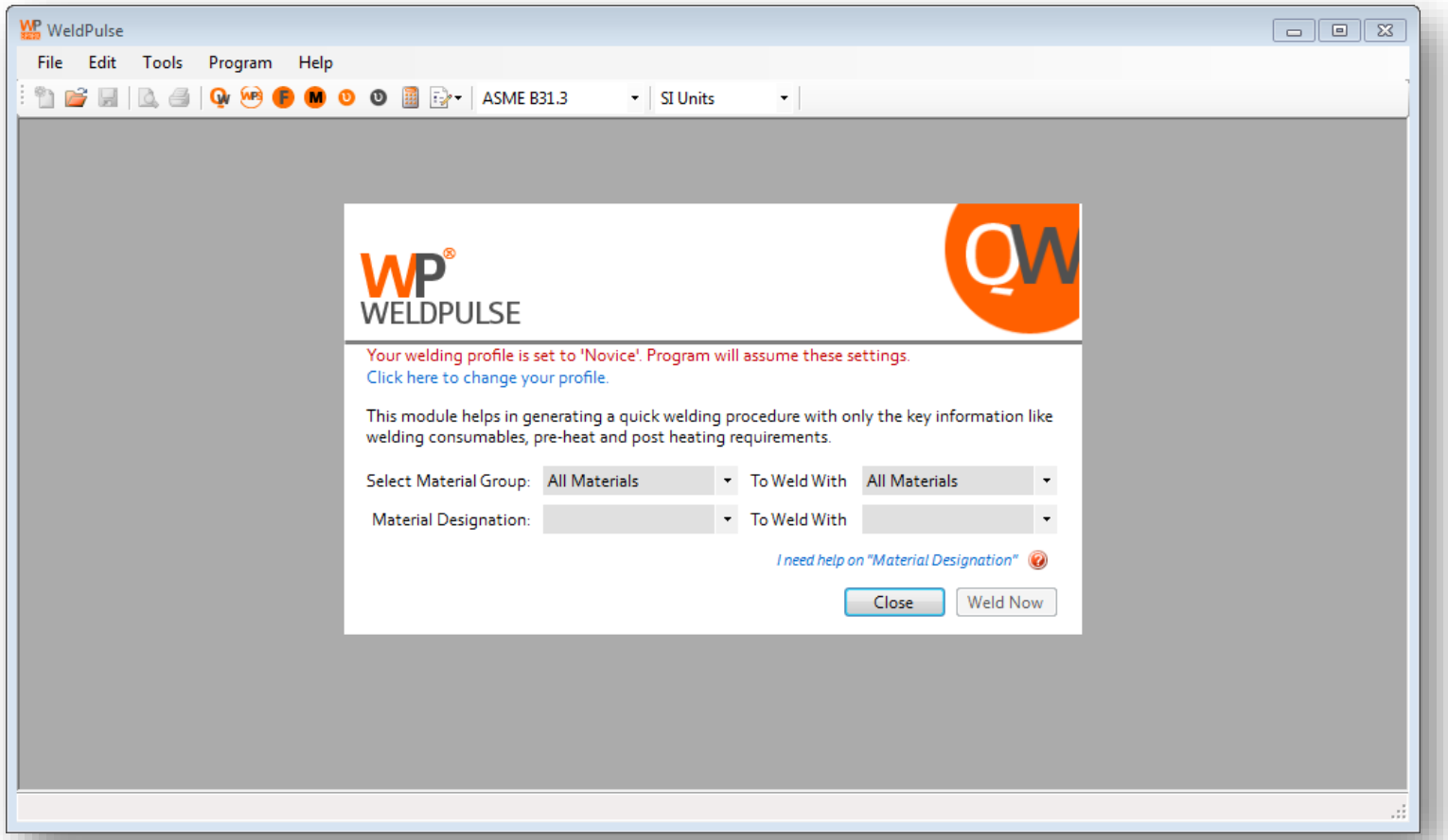
- Material information (containing 500+ materials in database)
- Construction code (ASME B31.3, B31.1 ASME Sec. I, Sec. VIII-1 & 2)

Results (depends upon profile)

- Pre-heat
- Interpass
- Filler & electrode (GTAW & SMAW only)
- Post weld heat treatment
- General comments, if any

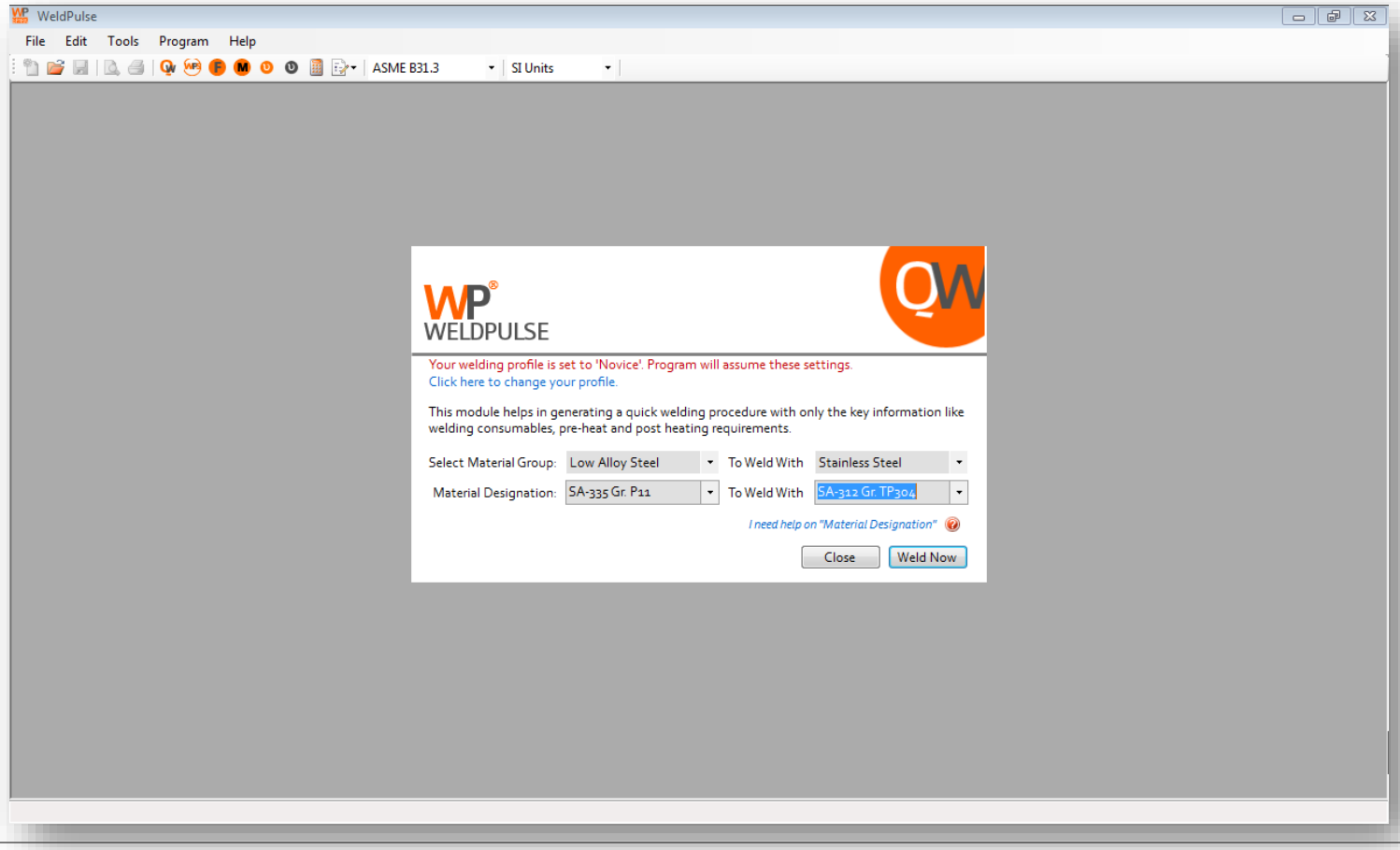
QuickWeld®

Let's start QuickWeld® module in Novice settings:



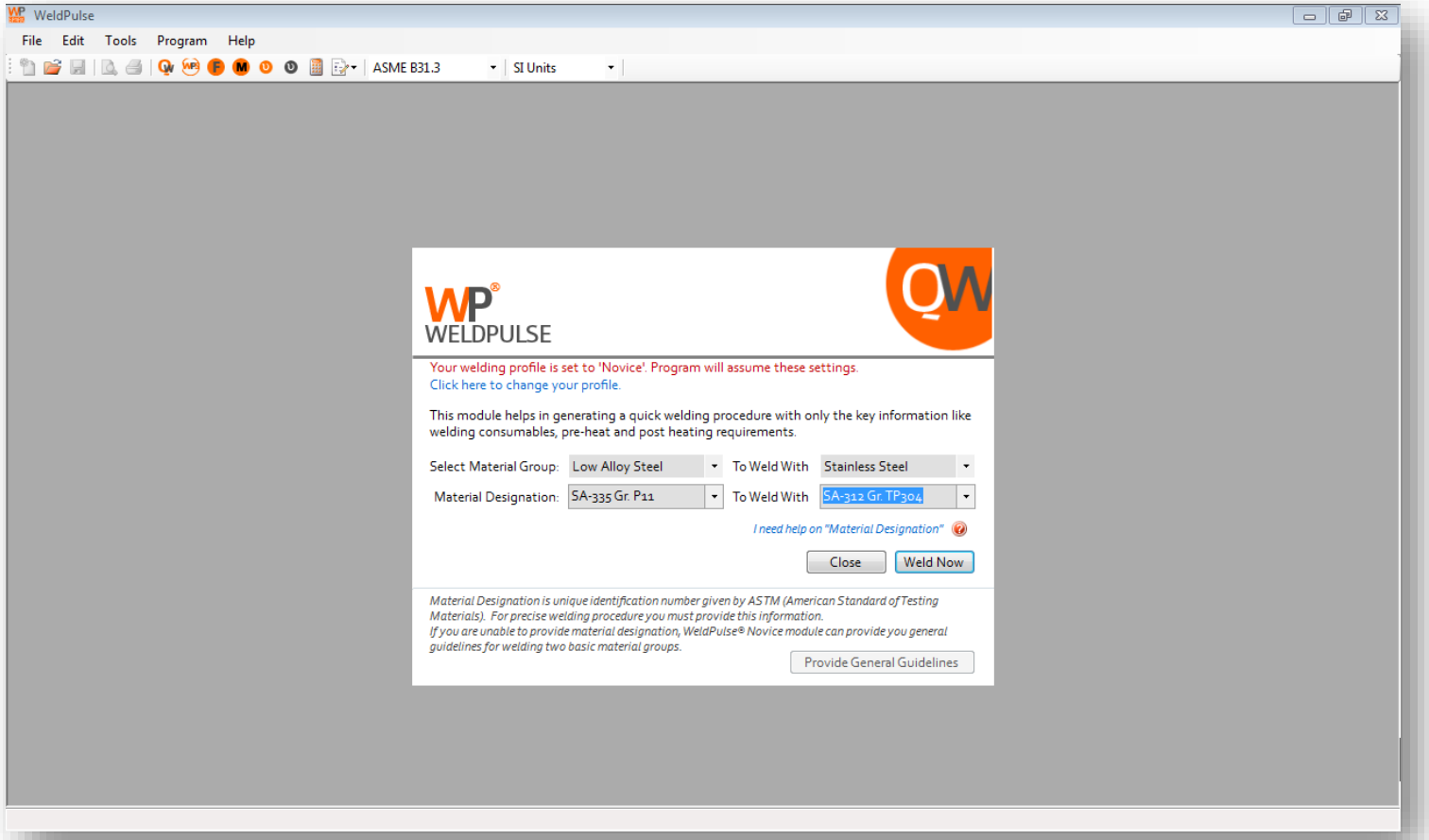
QuickWeld®

Let's have a look at QuickWeld® in Novice settings



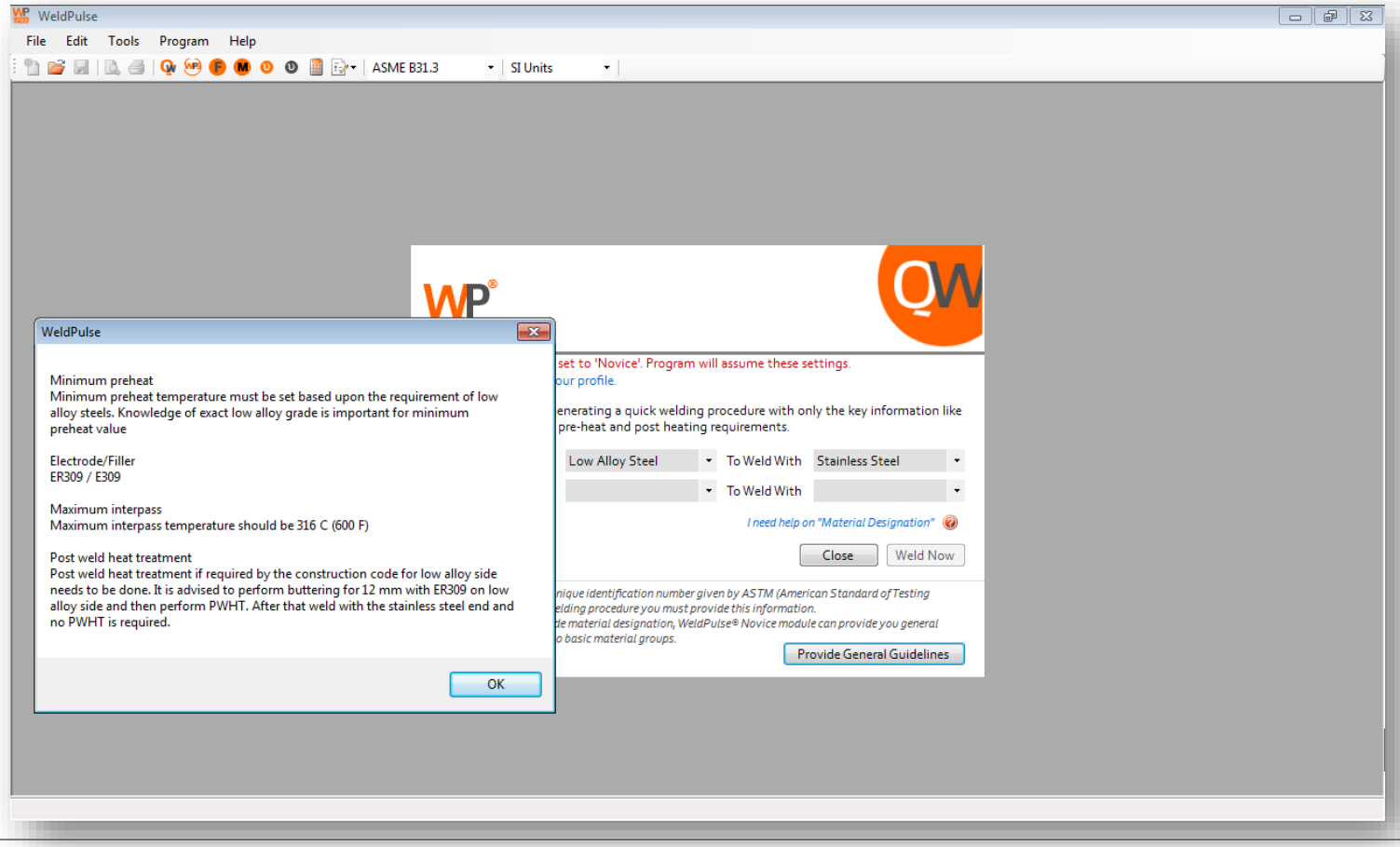
QuickWeld®

Material designation guidelines…



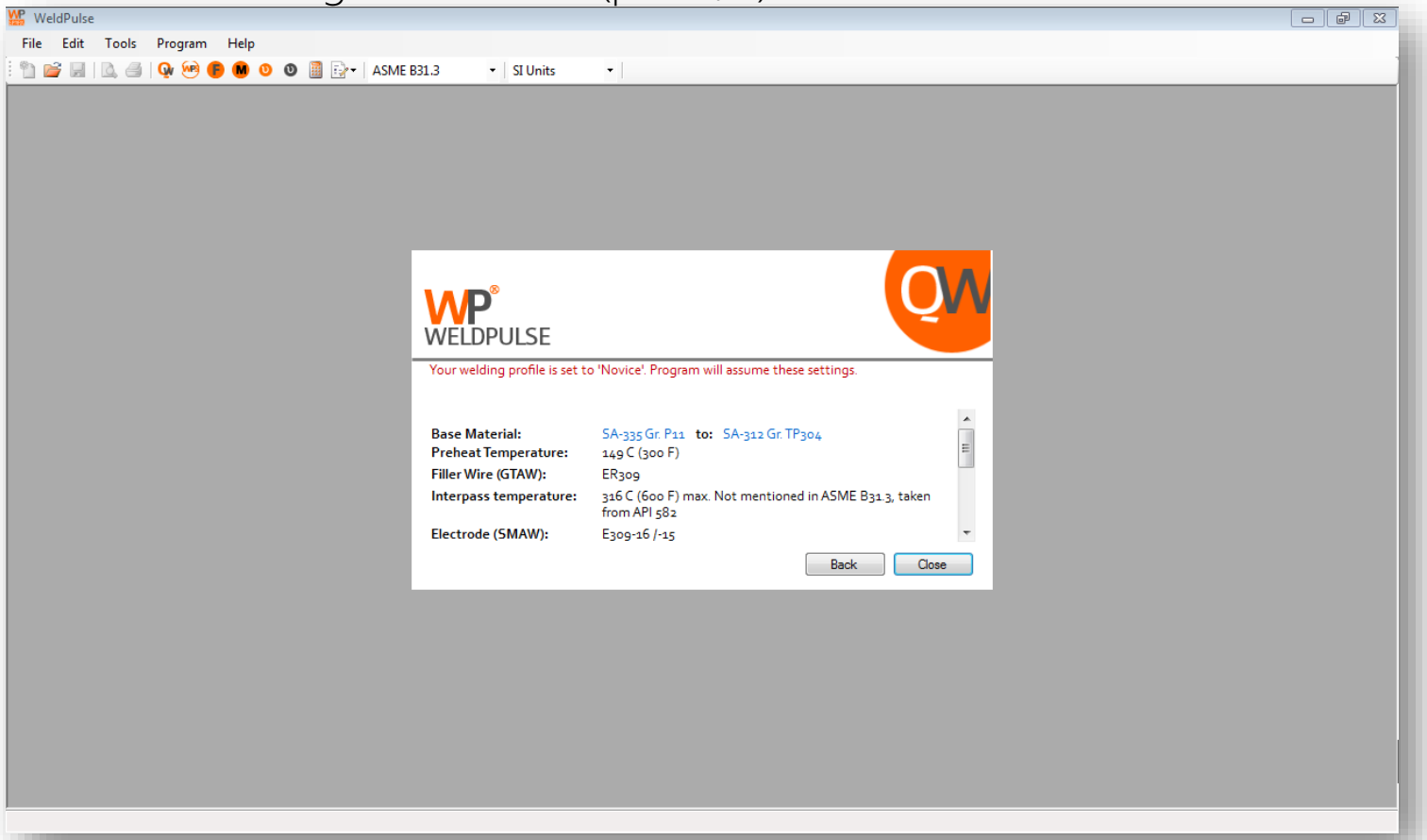
QuickWeld®

If you don't know the material specifications, click general guidelines:



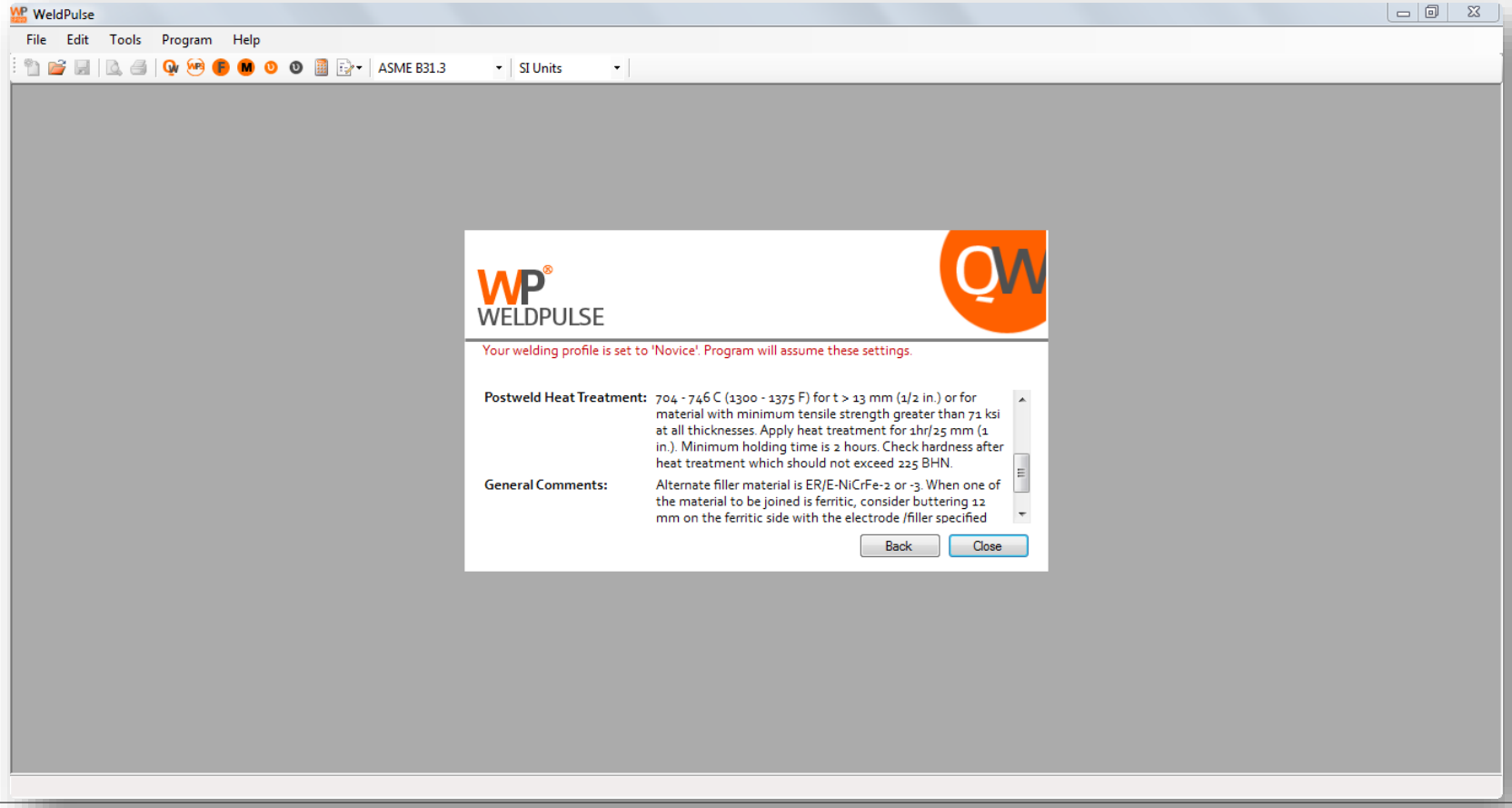
QuickWeld®

Results for Novice settings are as here (part 1/2):



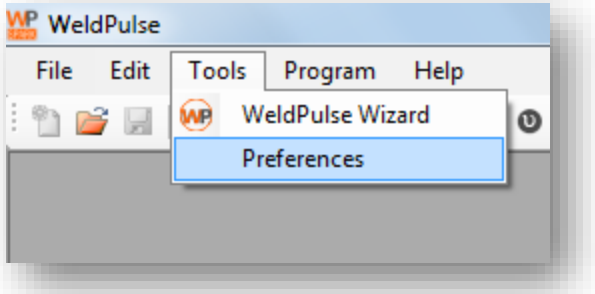
QuickWeld®

Results for Novice settings are as here (part 2)/2:

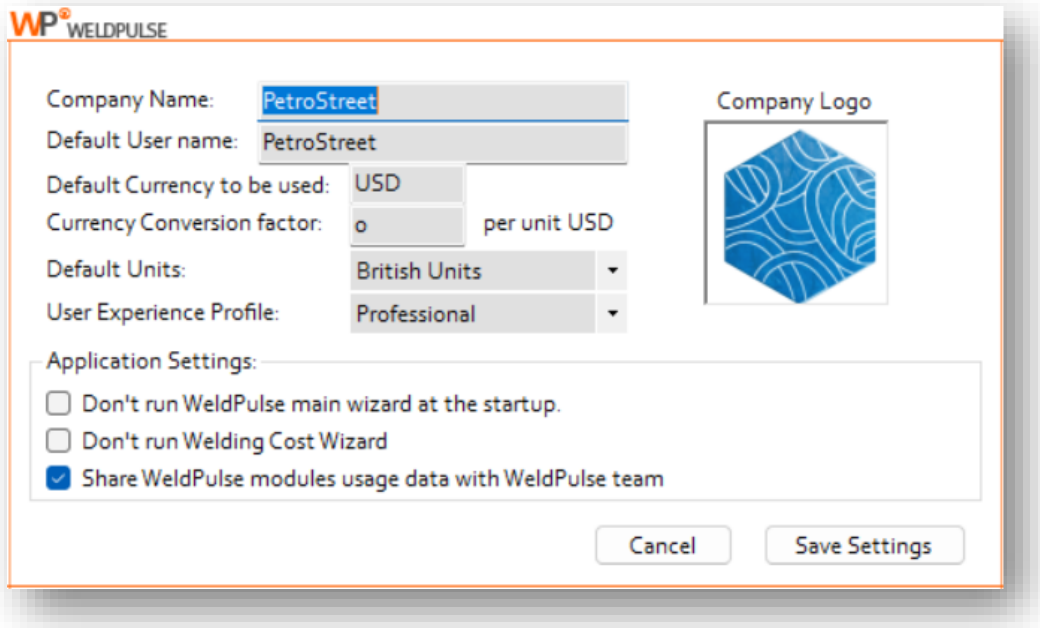


QuickWeld®

Let's change the profile to beginner and then use QuickWeld®:

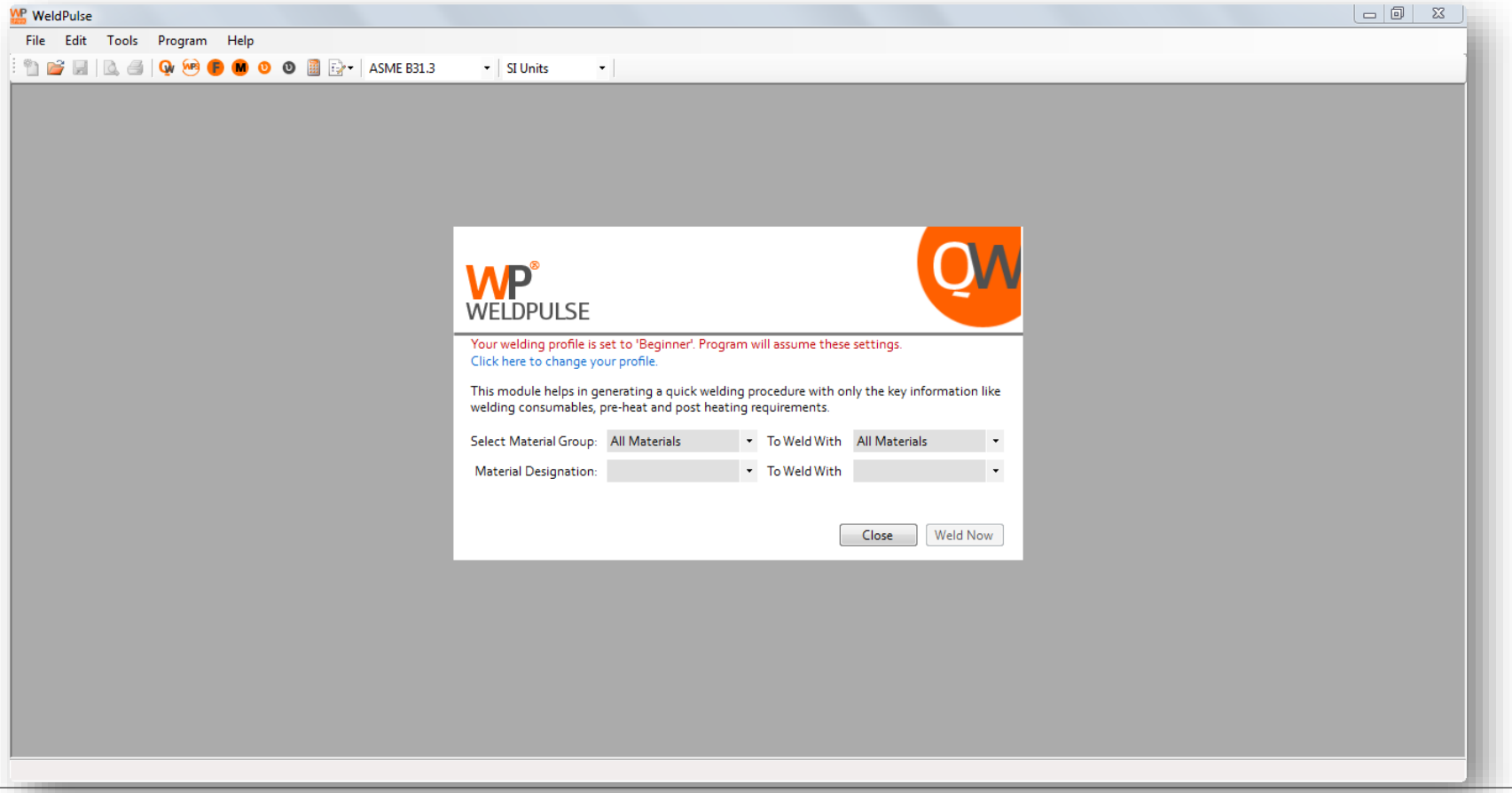


Change the profile to beginner and click **Save Settings**



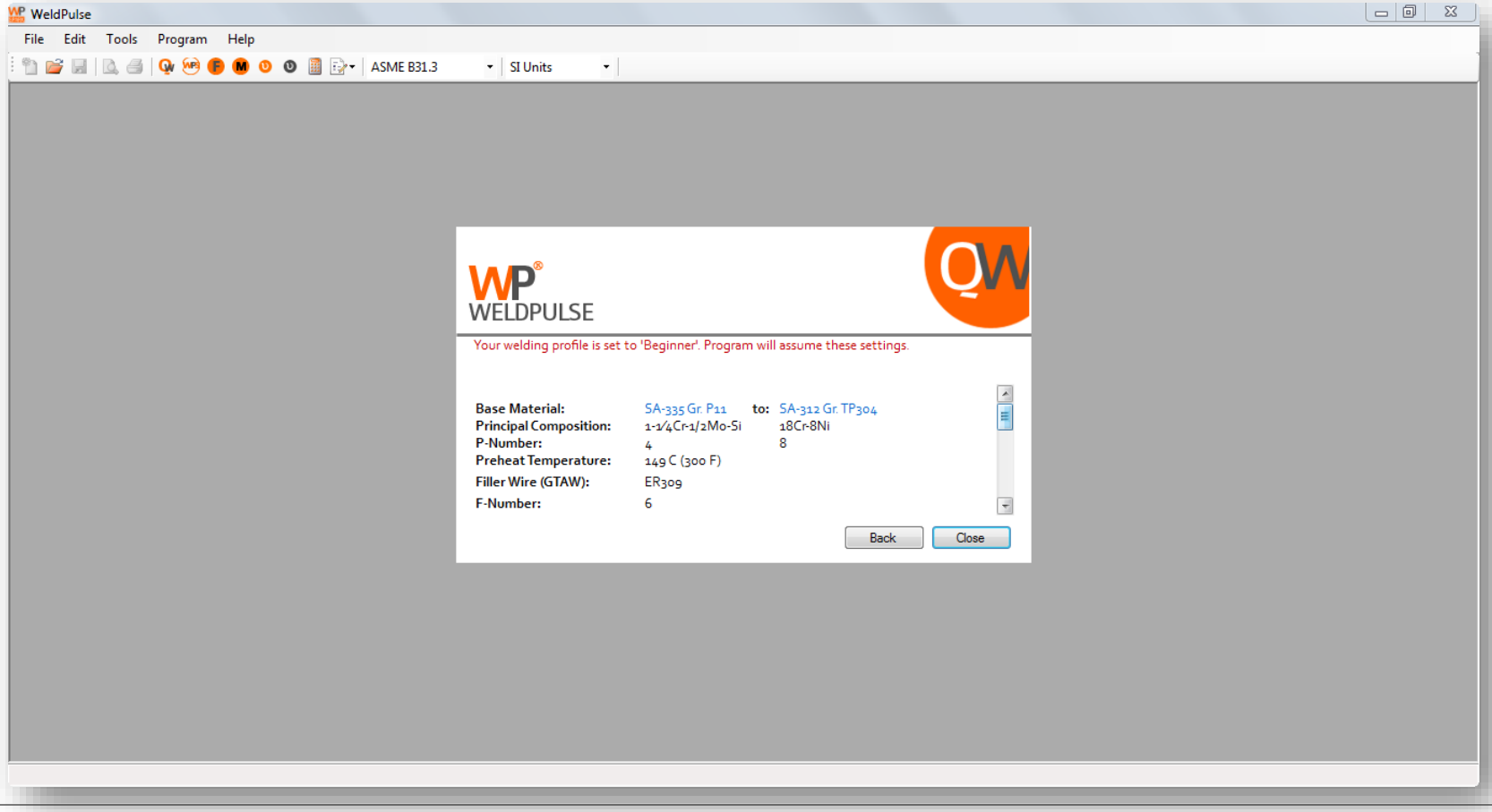
QuickWeld®

See in this profile setting, no general guidelines offered



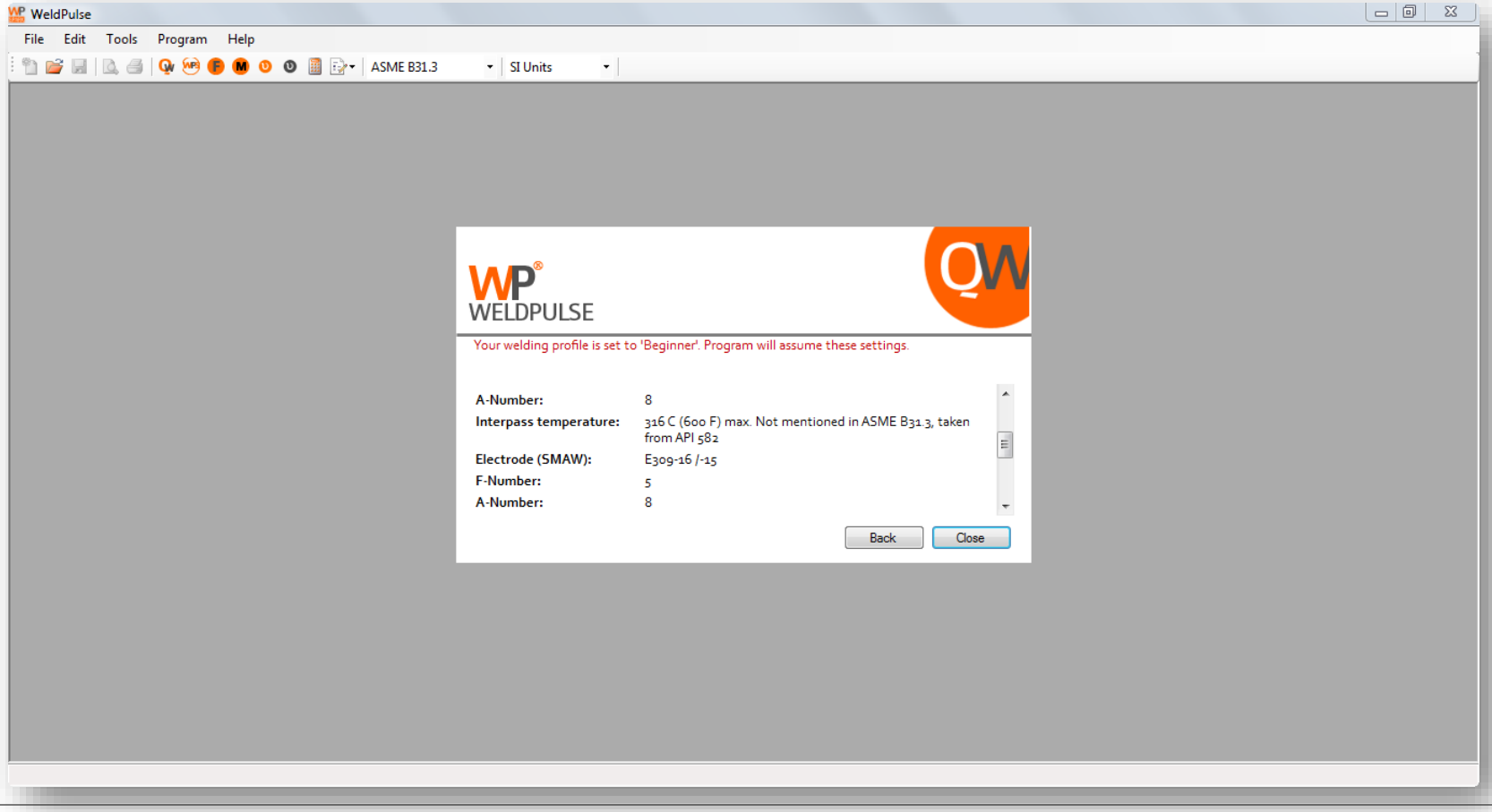
QuickWeld®

See the level of details offered to Beginner (part 1/3):



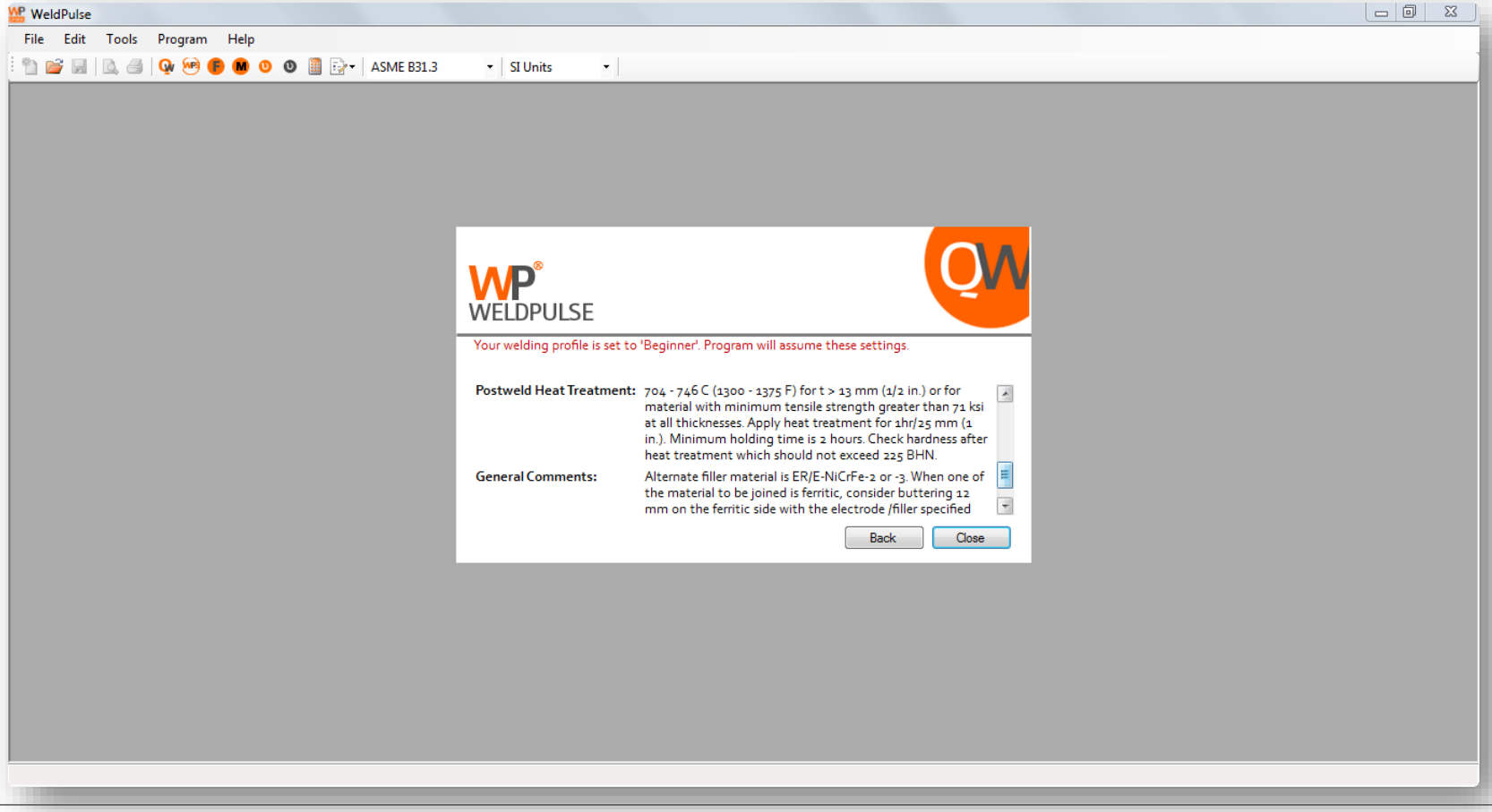
QuickWeld®

See the level of details offered to Beginner (part 2/3):



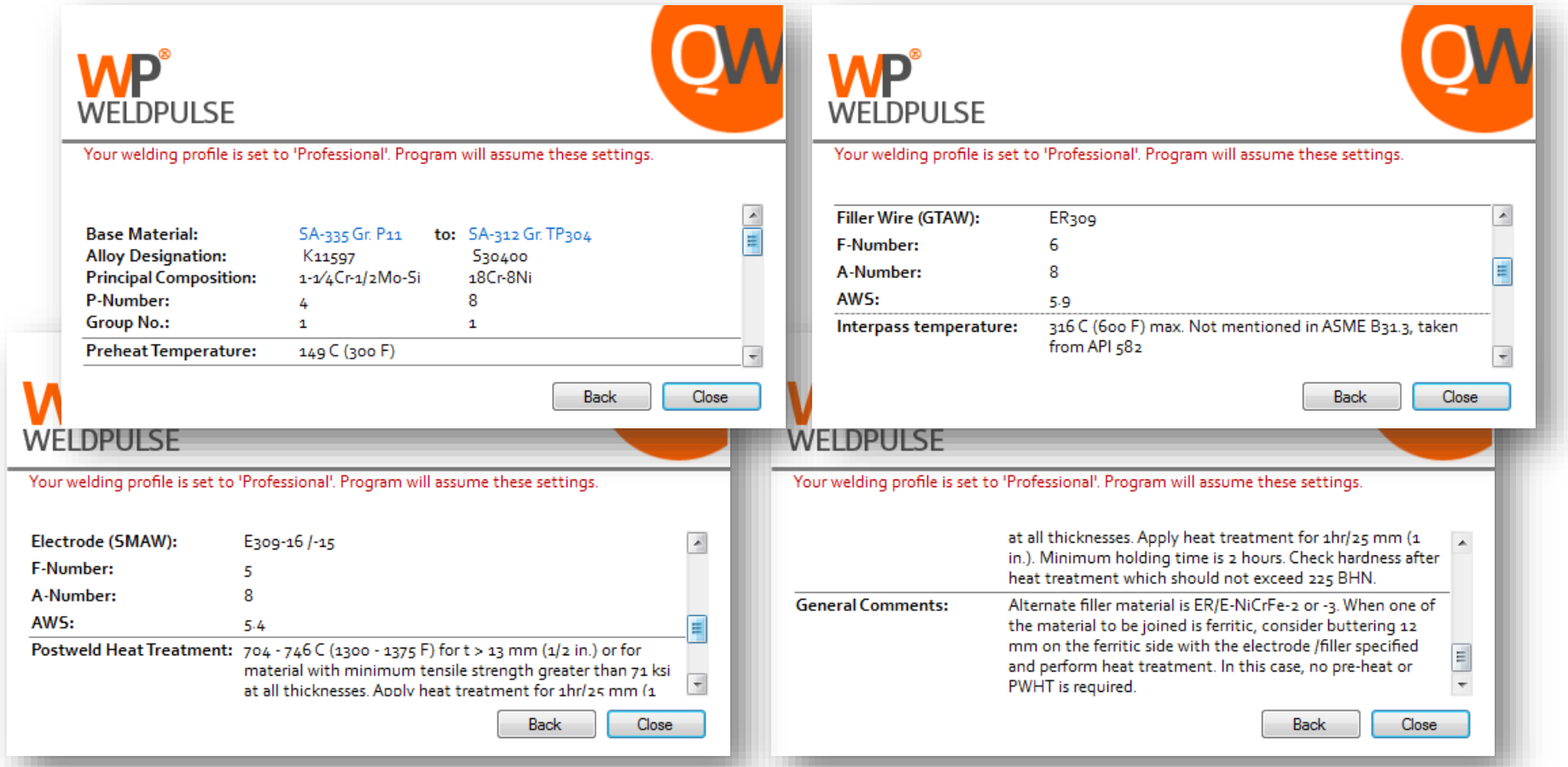
QuickWeld®

See the level of details offered to Beginner (part 3/3):



QuickWeld®

Professional results show as below:



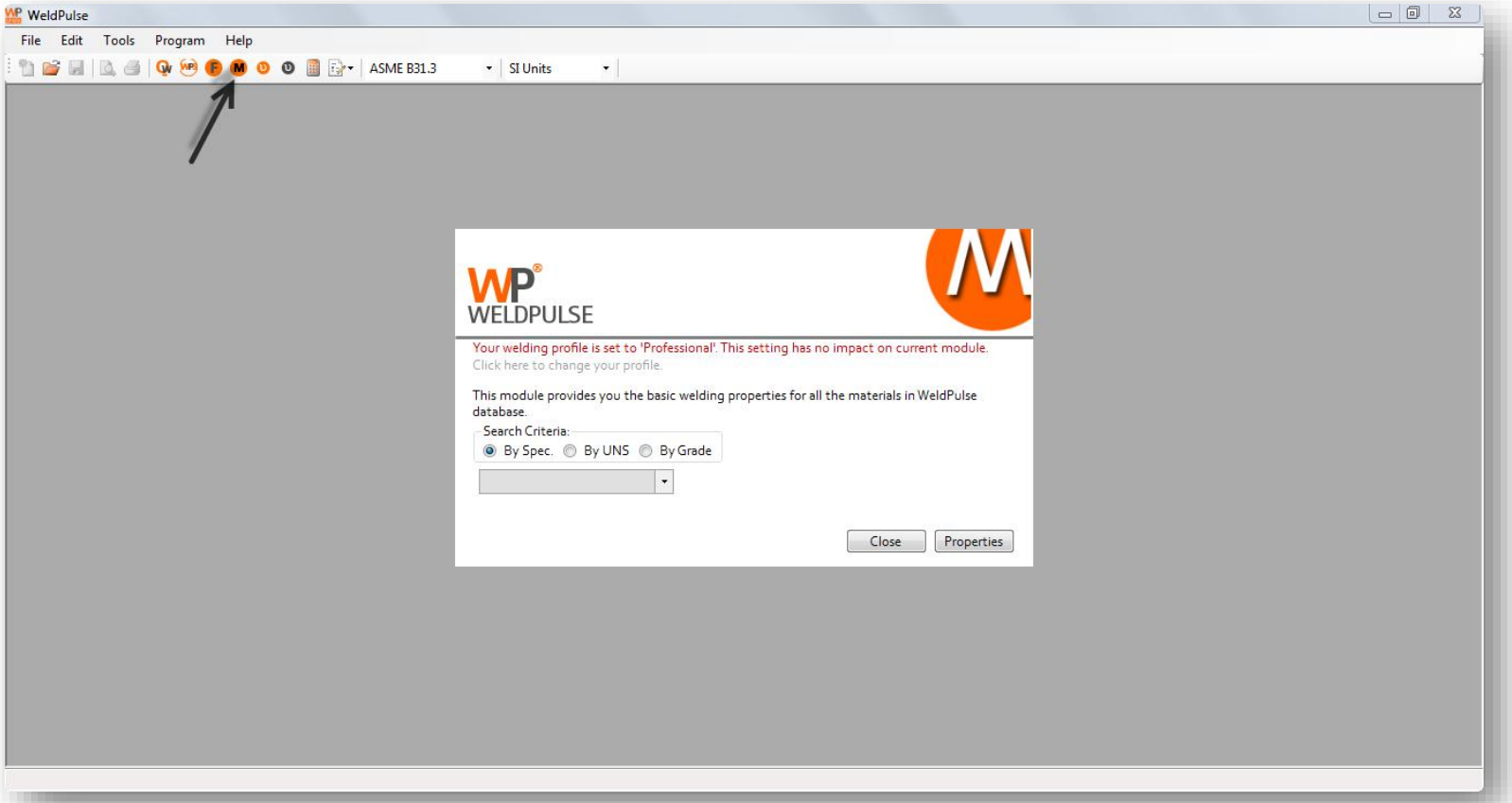
WELDPULSE

ARC EDITION

Material Properties

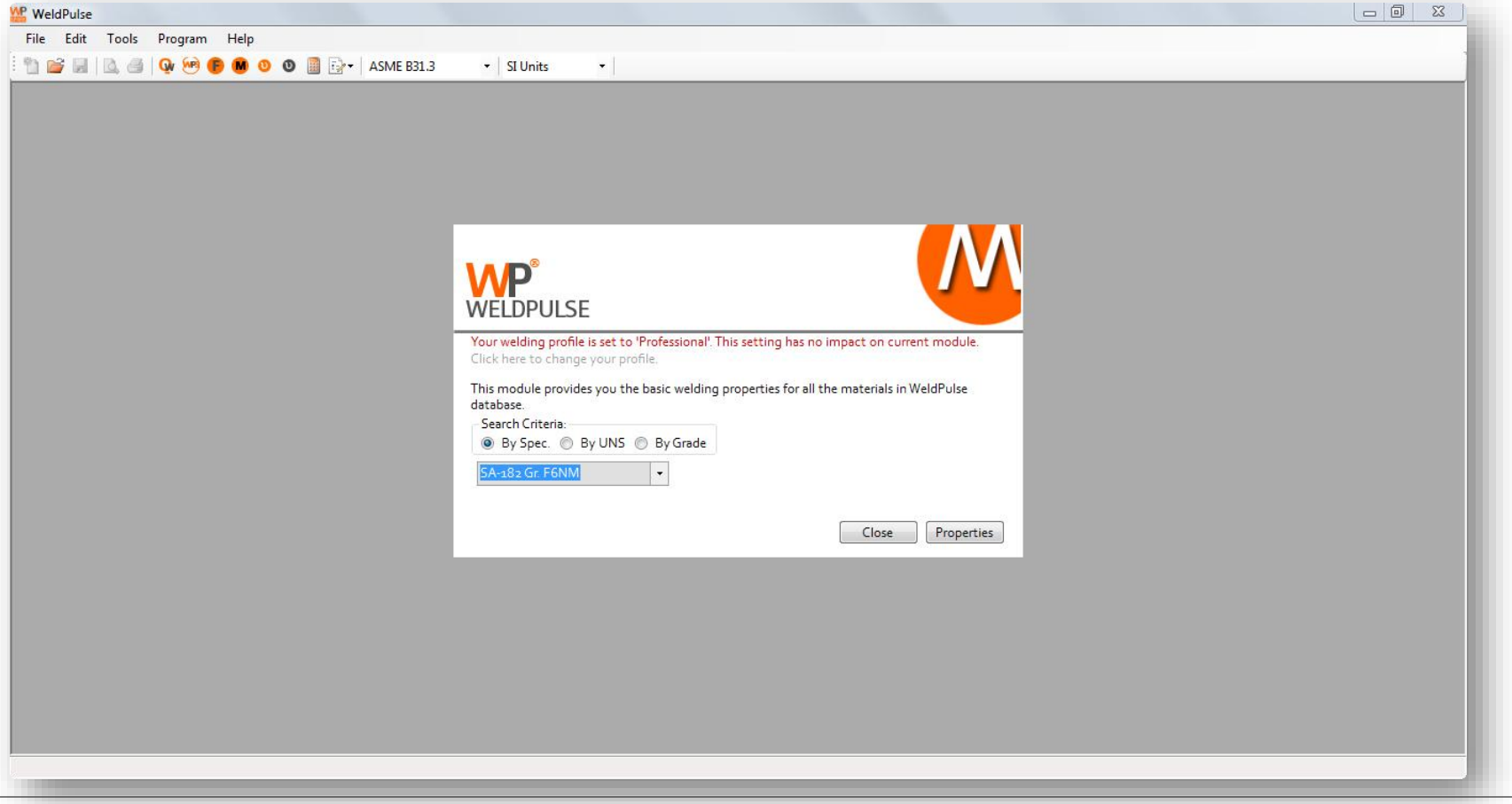
Material Properties

WeldPulse® provides chemical and mechanical properties of materials in database. There are 500+ ASME materials available in WeldPulse.



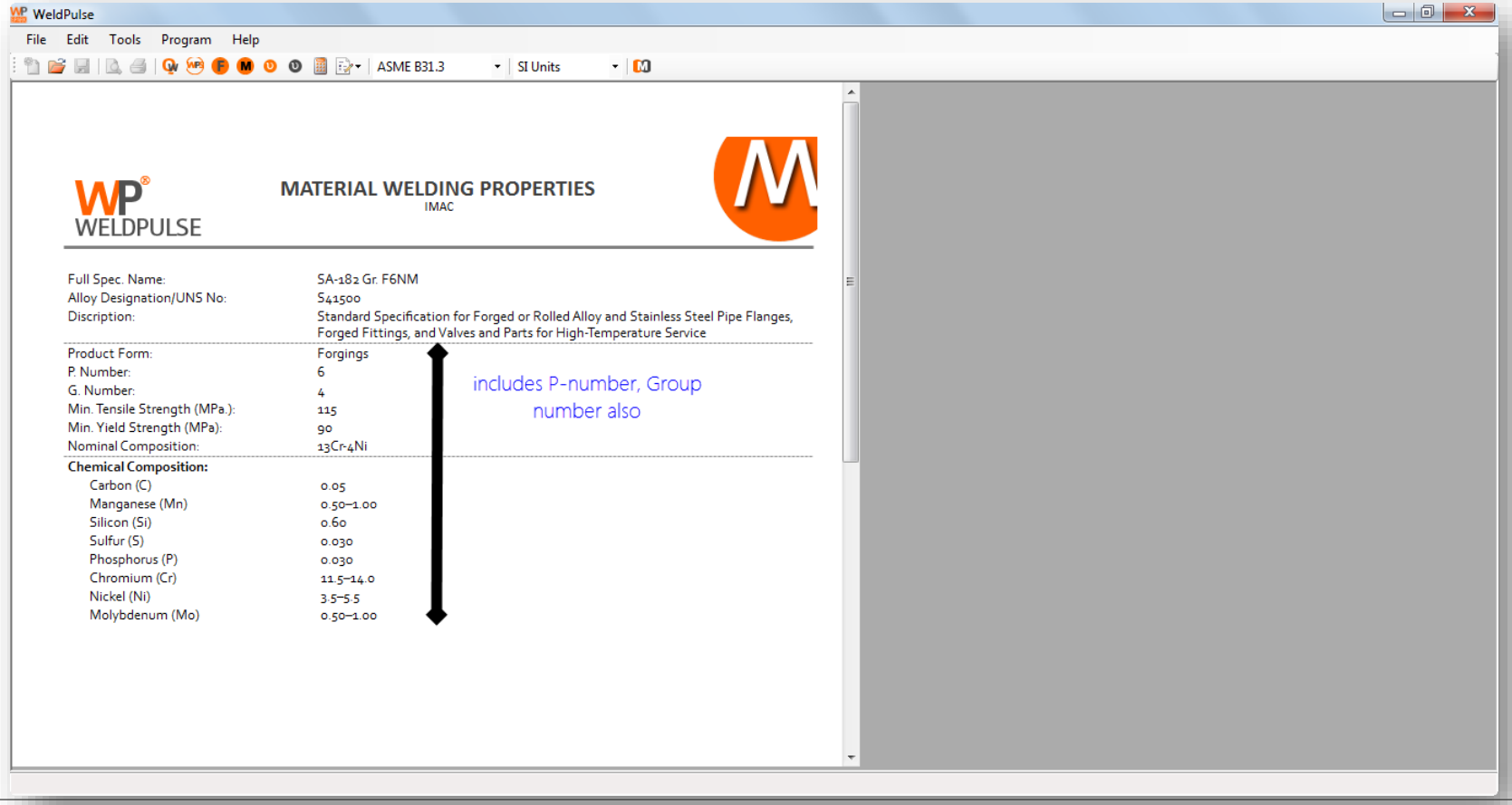
Material Properties

Enter either the specification, grade or UNS number to get the properties



Material Properties

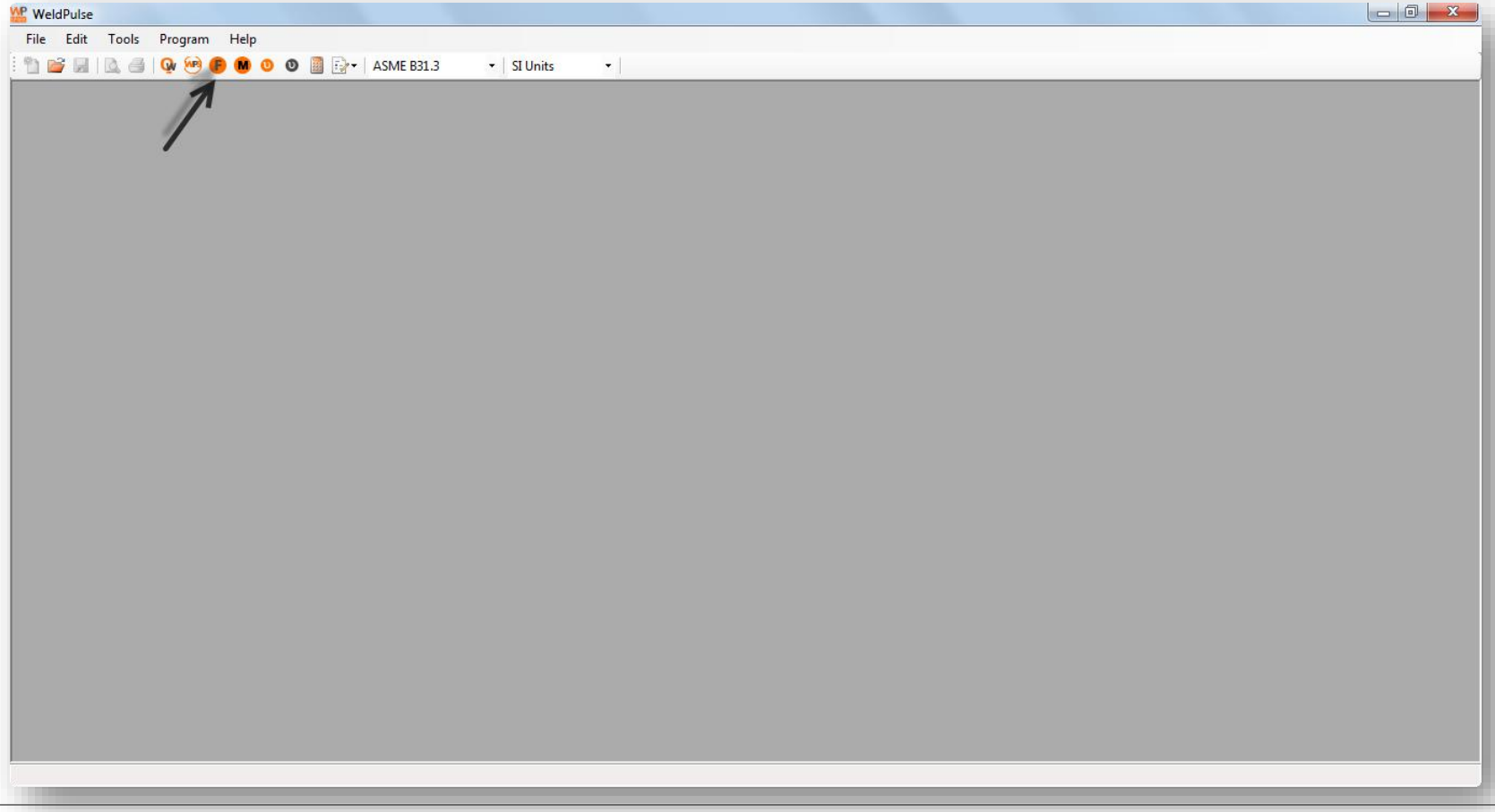
Properties appear like shown below:



Filler Properties

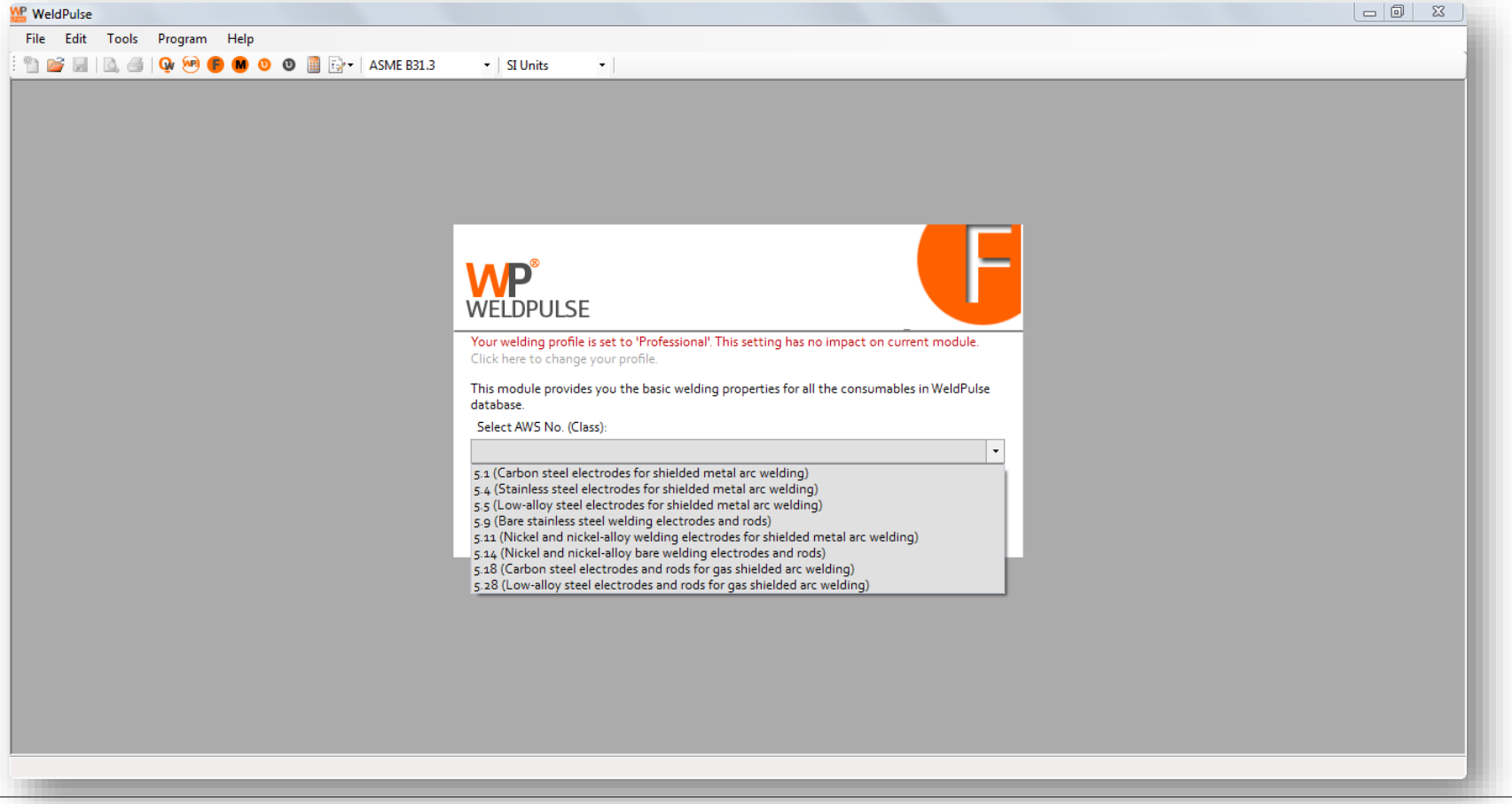
Filler Properties

Filler materials database is included for SMAW & GTAW processes



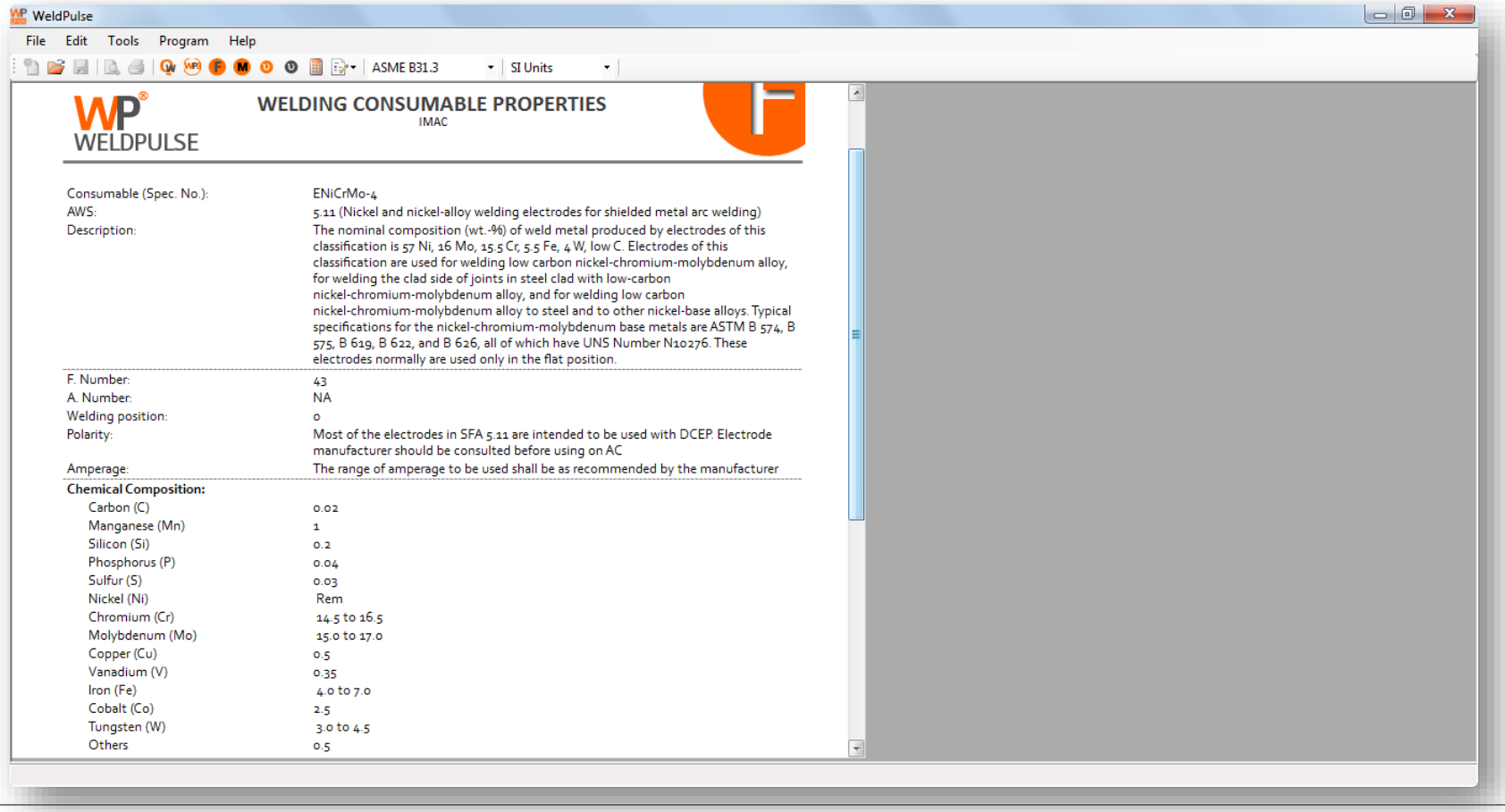
Filler Properties

Choose the appropriate AWS classification



Filler Properties

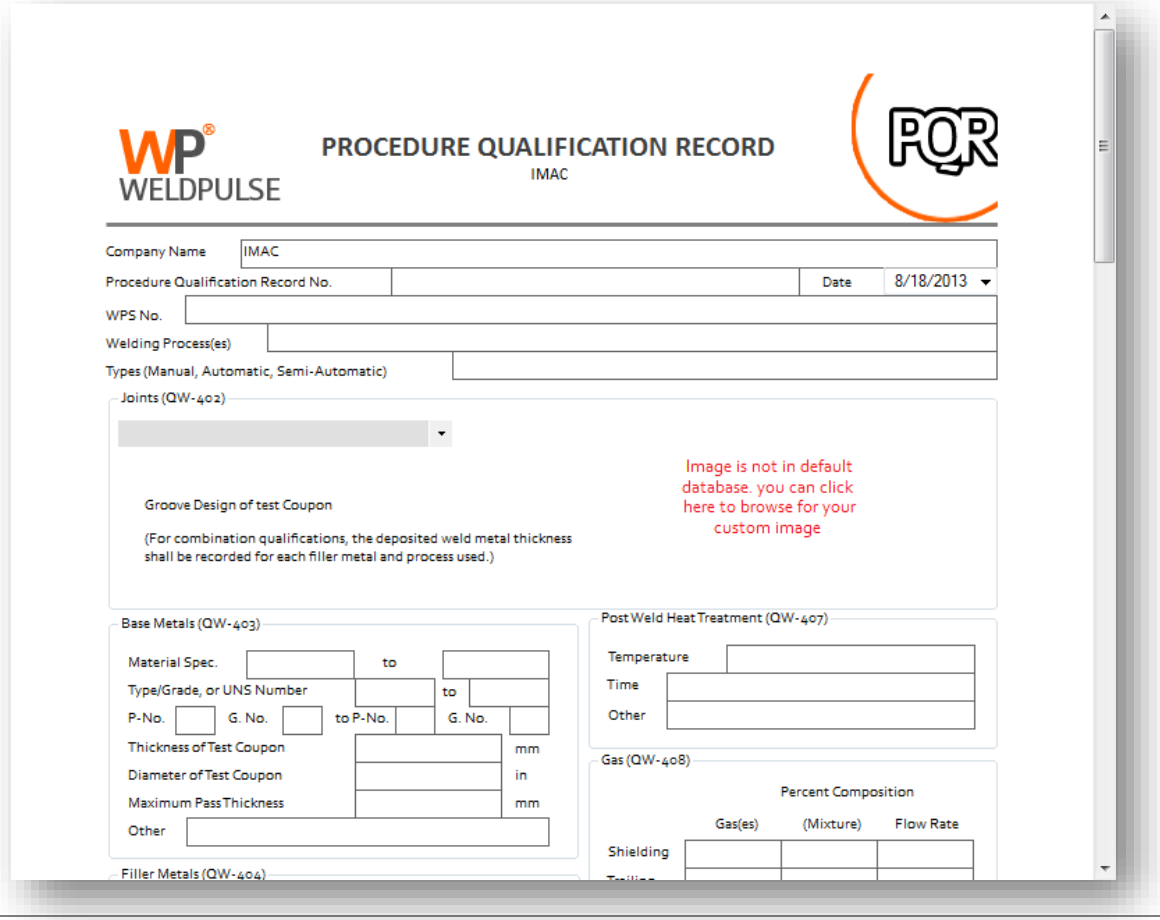
Filler properties are shown as below:



PQR

PQR

PQR form is shown here:



PROCEDURE QUALIFICATION RECORD

IMAC

PQR

Company Name: IMAC

Procedure Qualification Record No.

Date: 8/18/2013

WPS No.

Welding Process(es)

Types (Manual, Automatic, Semi-Automatic)

Joints (QW-402)

Groove Design of test Coupon

(For combination qualifications, the deposited weld metal thickness shall be recorded for each filler metal and process used.)

Image is not in default database. you can click here to browse for your custom image

Base Metals (QW-403)

Material Spec. to

Type/Grade, or UNS Number to

P-No. G. No. to P-No. G. No.

Thickness of Test Coupon mm

Diameter of Test Coupon in

Maximum Pass Thickness mm

Other

Post Weld Heat Treatment (QW-407)

Temperature

Time

Other

Gas (QW-408)

Percent Composition

Gas(es) (Mixture) Flow Rate

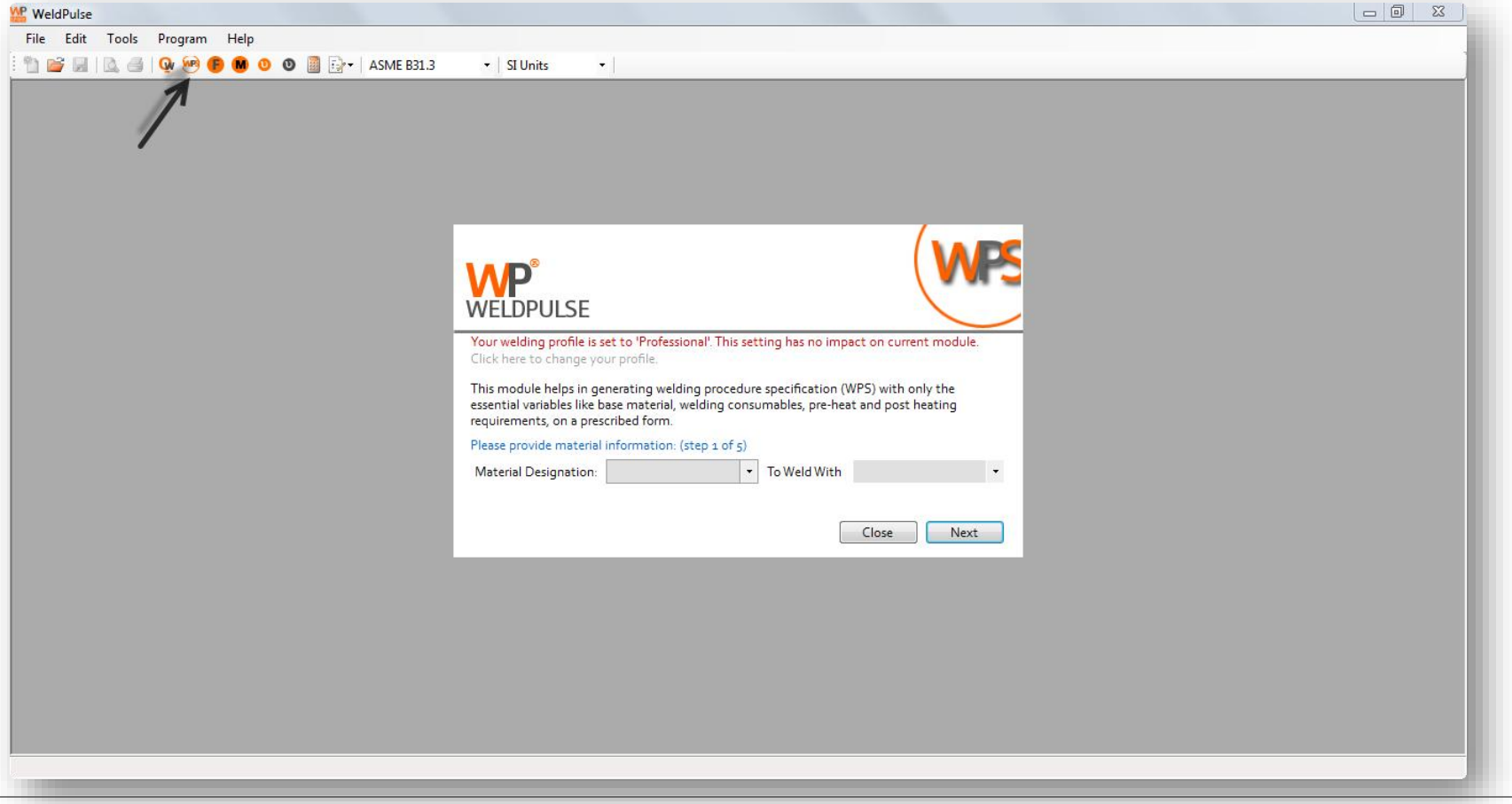
Shielding

Filler Metals (QW-404)

WPS

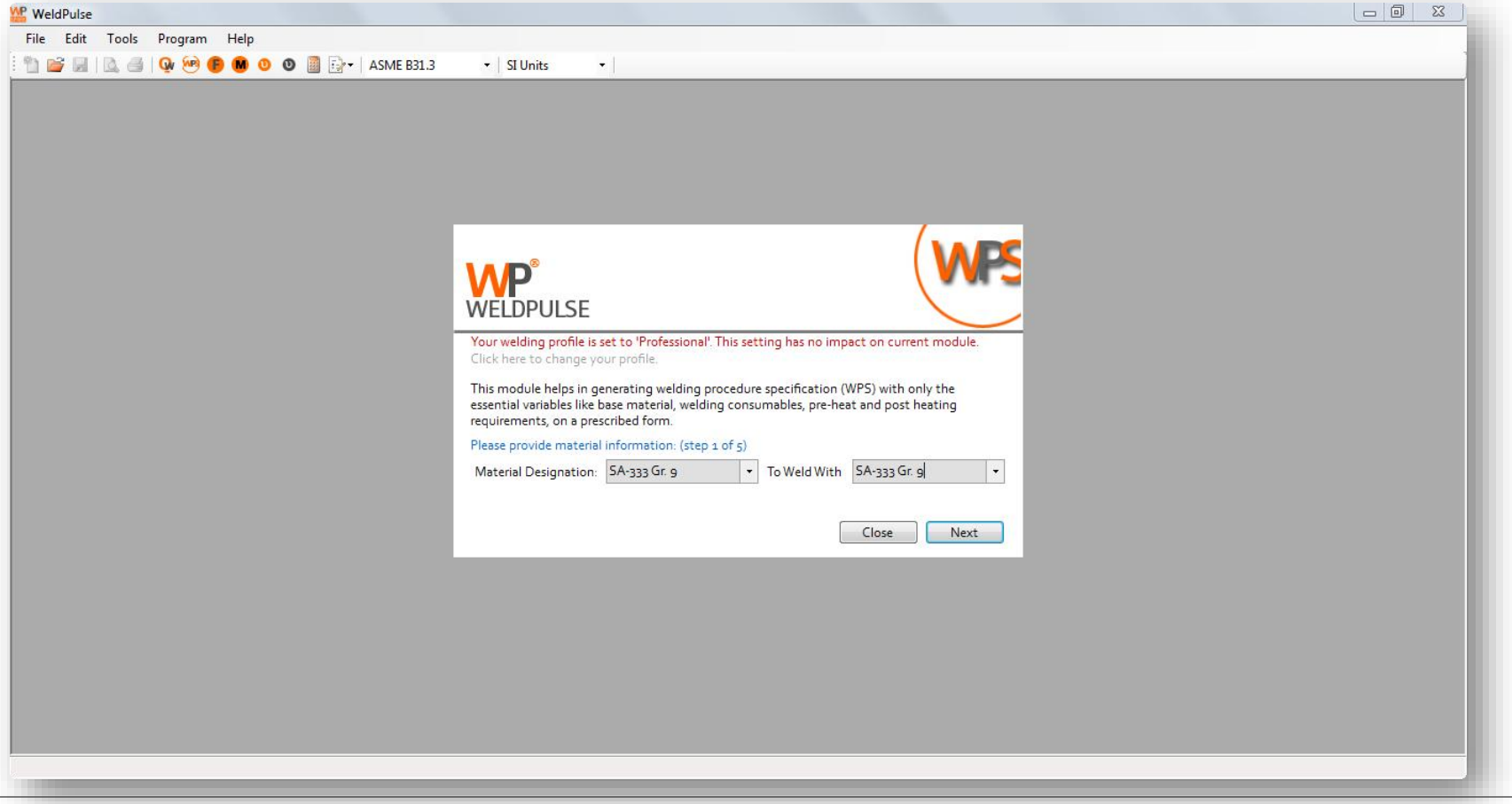
WPS

A complete preliminary WPS or from PQR can be made through WeldPulse®



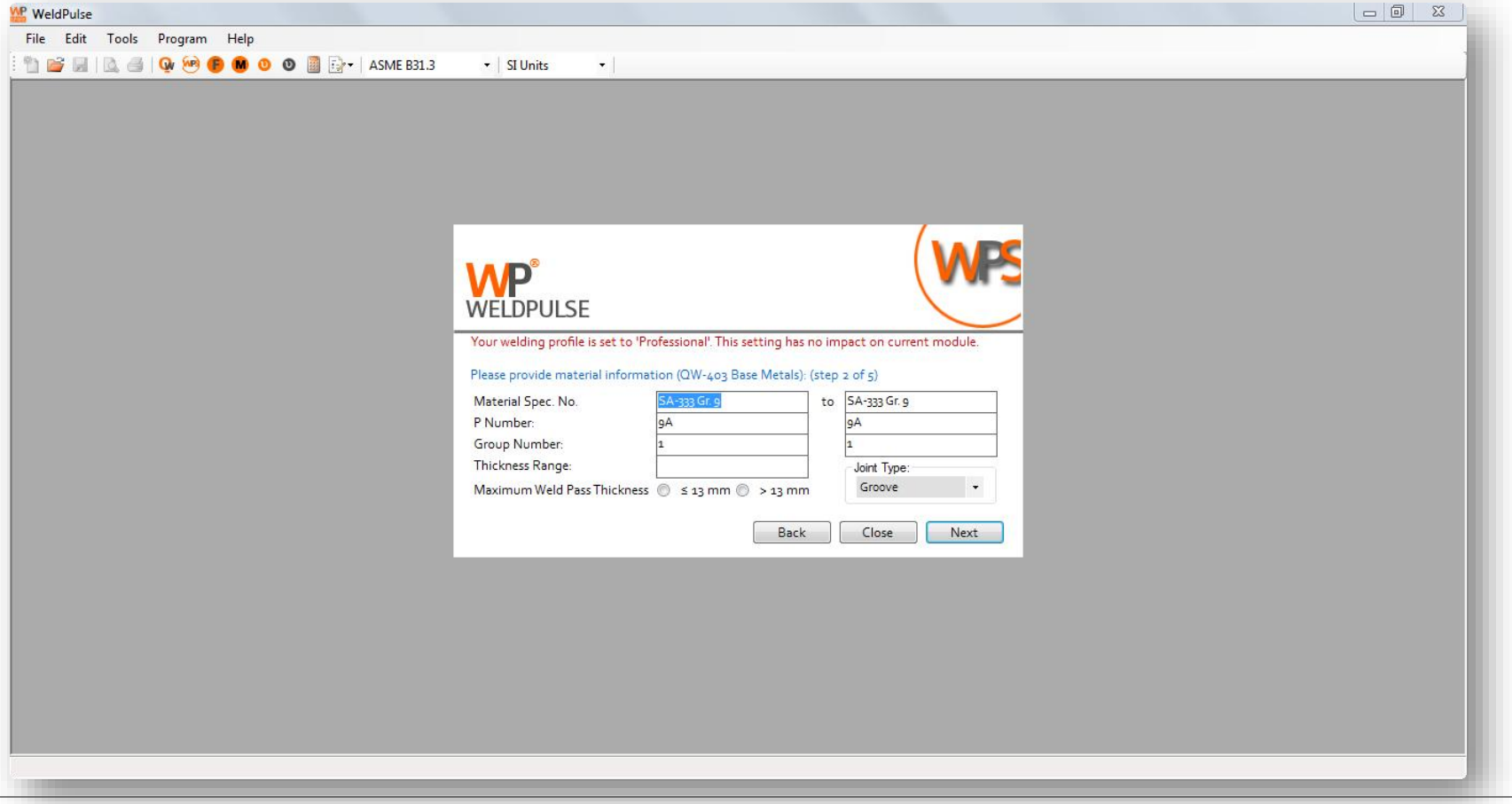
WPS

It's a 5 step process. In 1st step, enter materials information



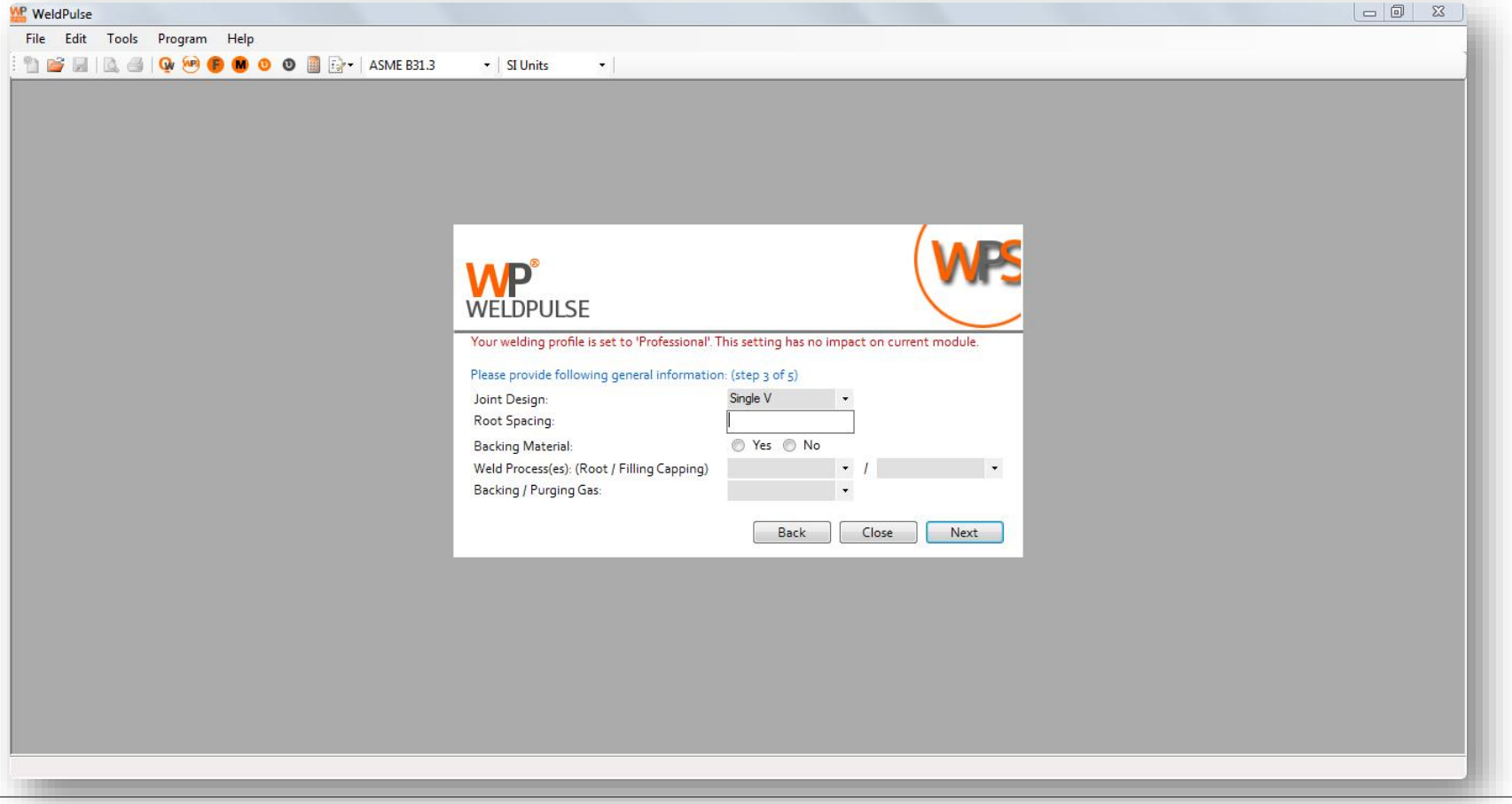
WPS

In step 2, WeldPulse® will provide materials P-number and Group Number



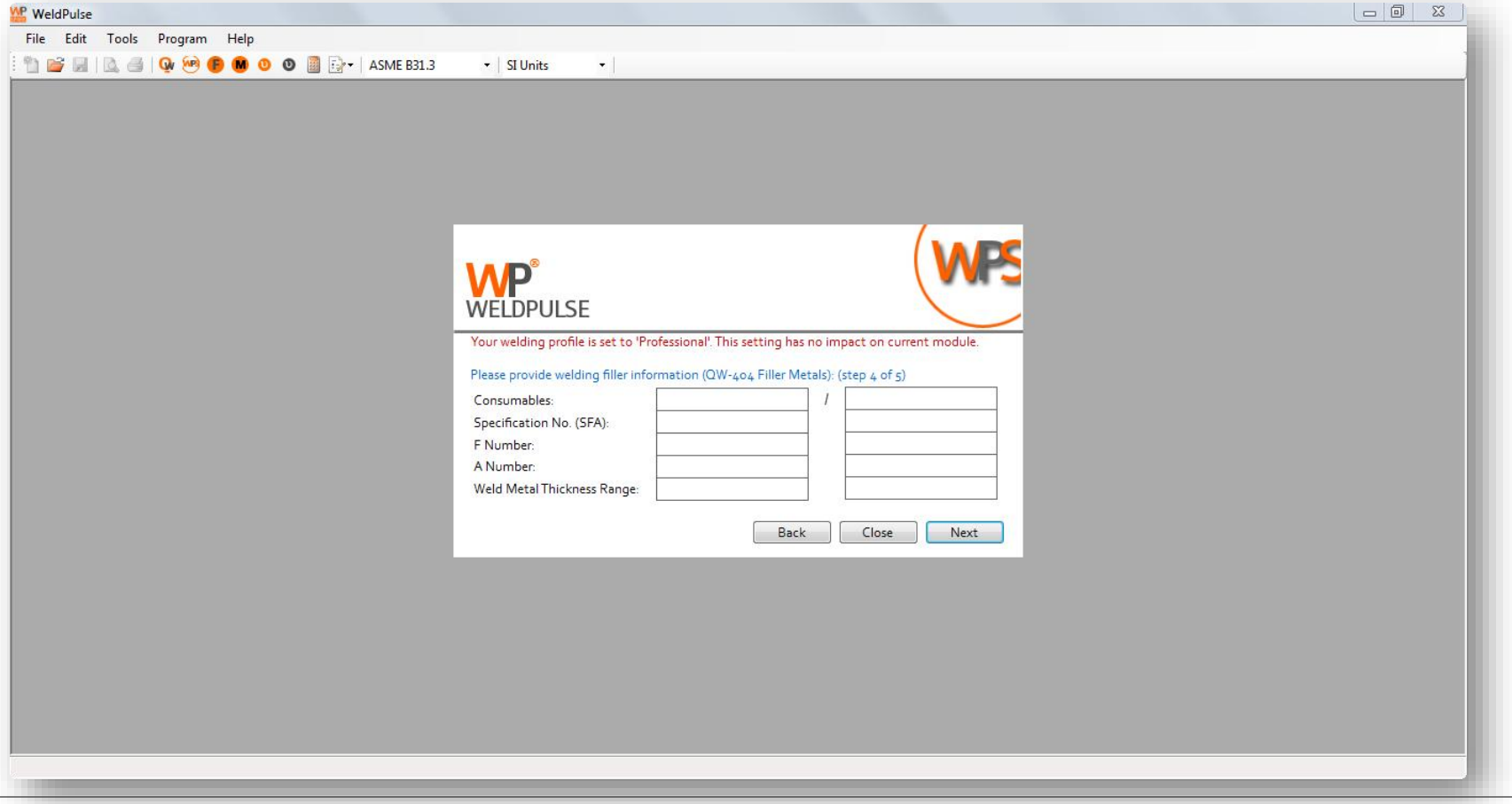
WPS

In step 3, WeldPulse® asks for joint design, root spacing, backing etc.



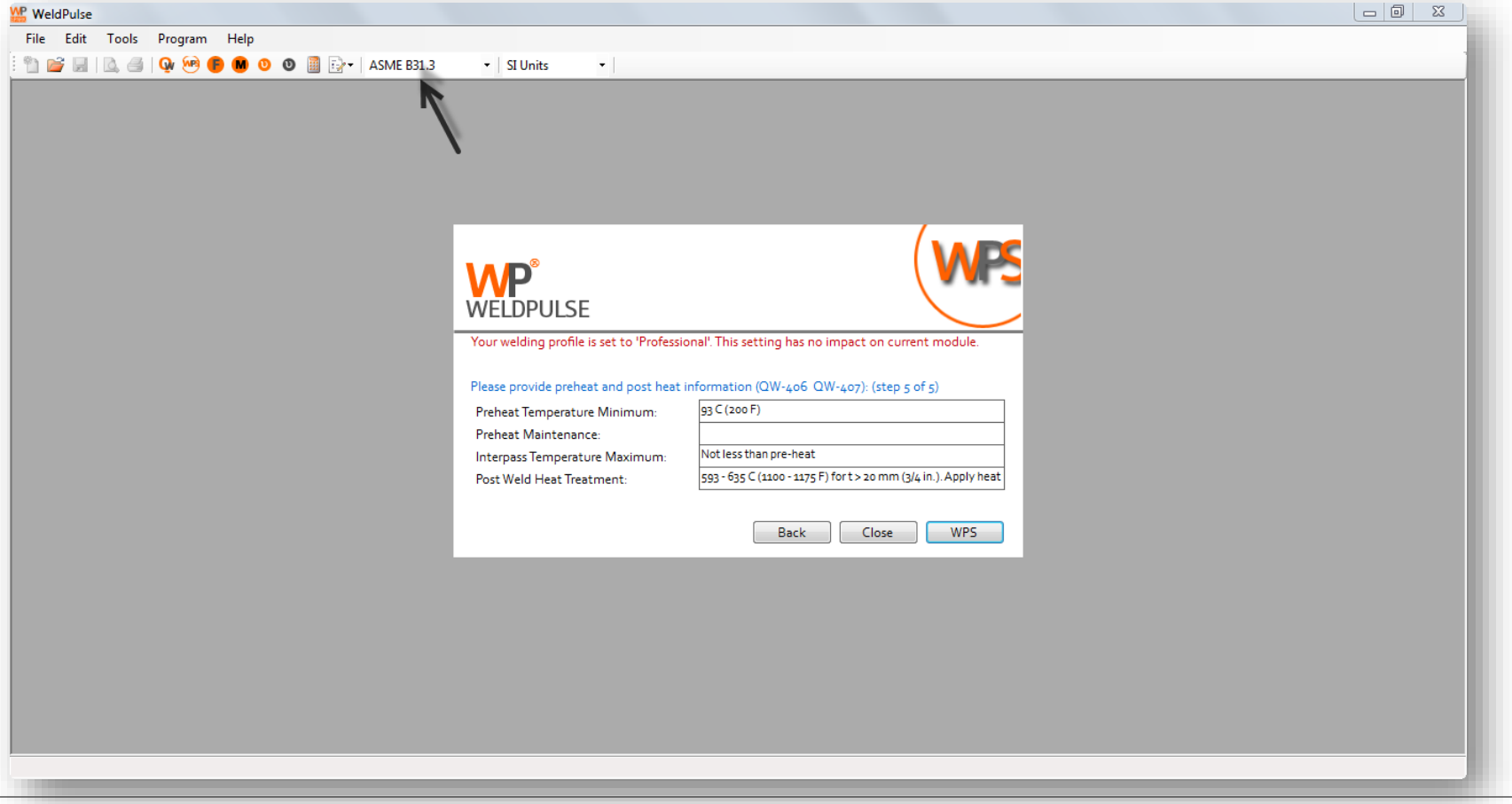
WPS

In step 4, it requires filler information; for GTAW & SMAW consumables are suggested



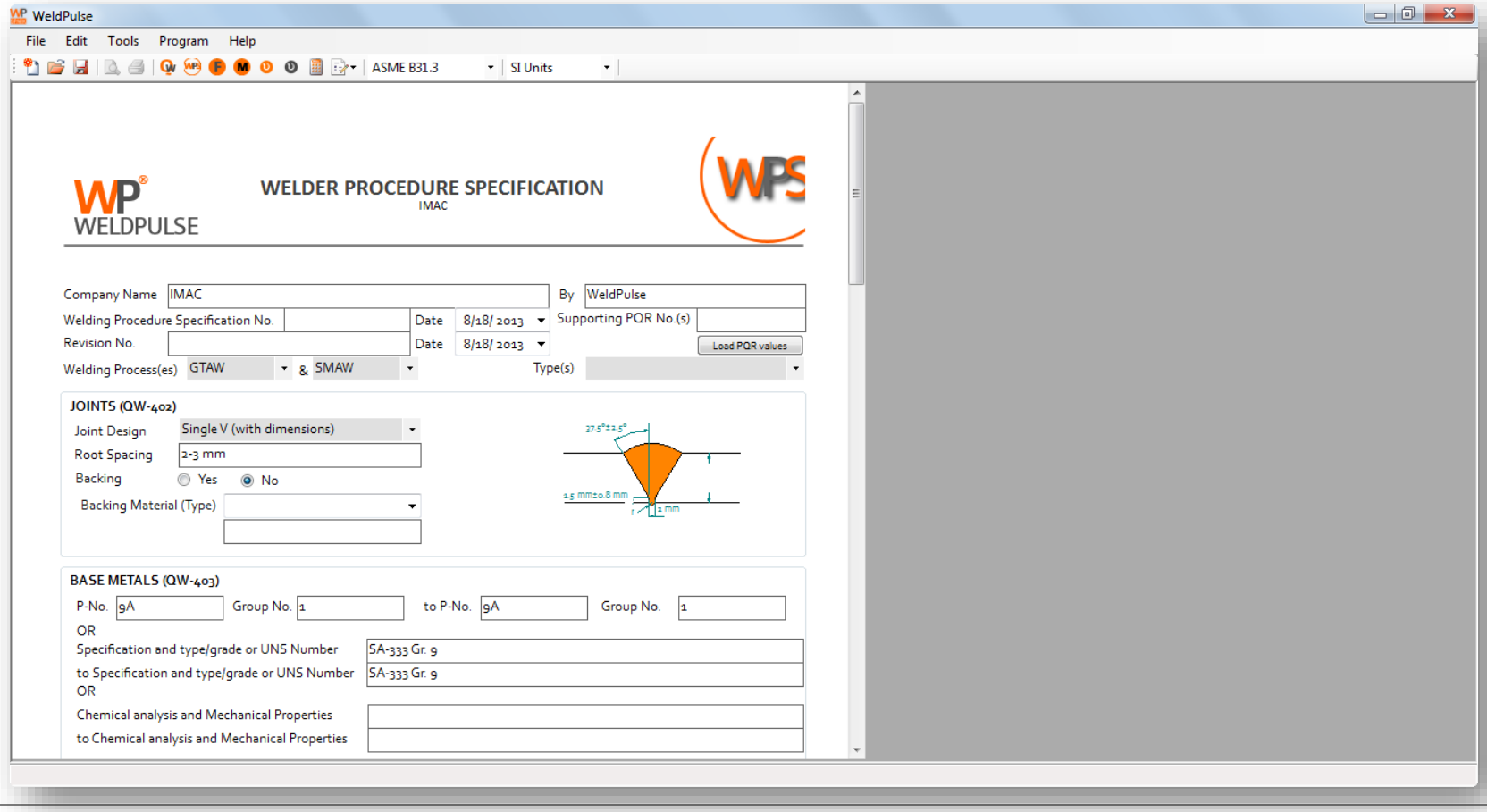
WPS

In last step, it displays heat treatment suggestion as per construction code selected



WPS

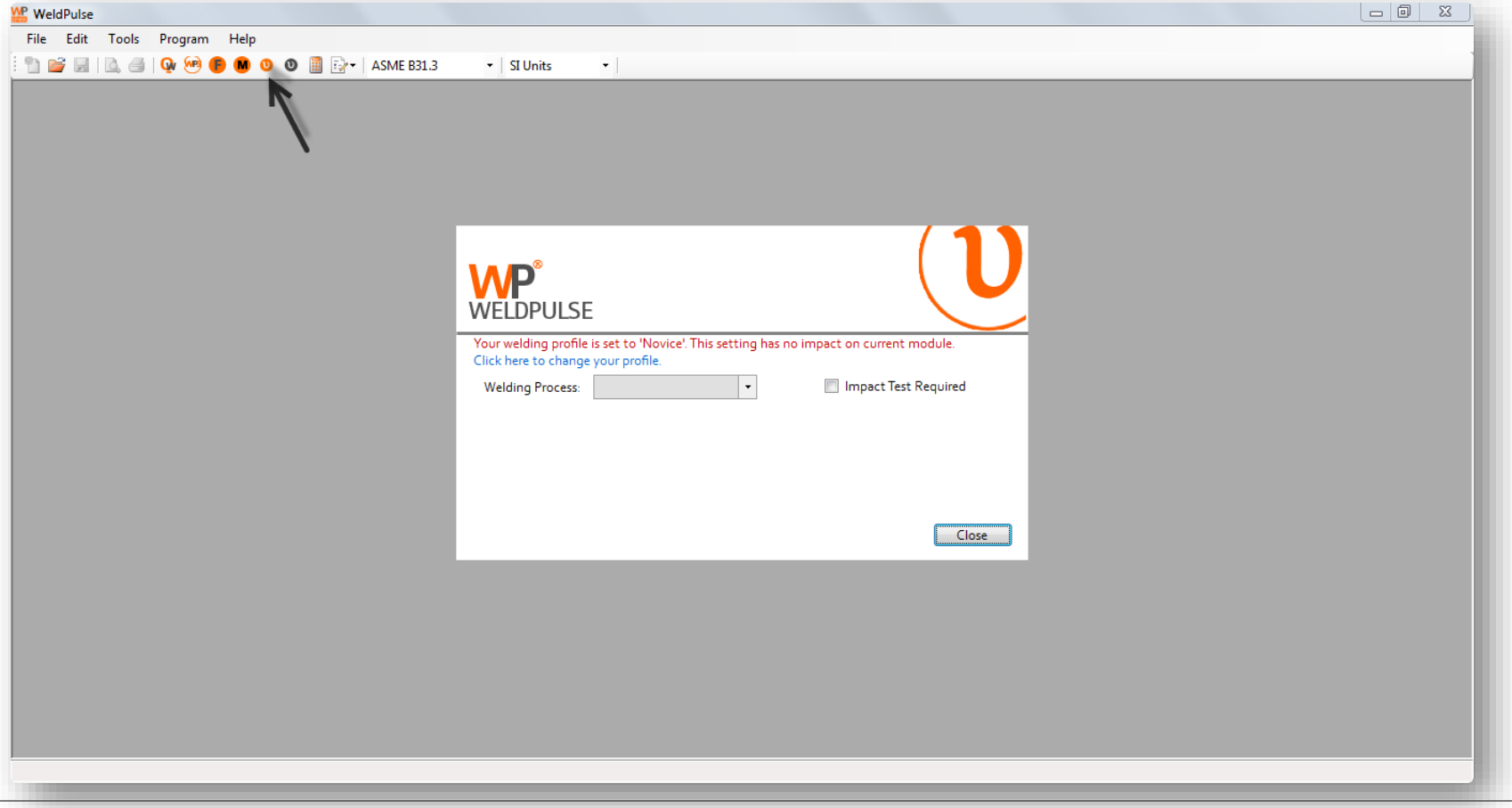
Finally, complete WPS form is displayed



Procedure Variables

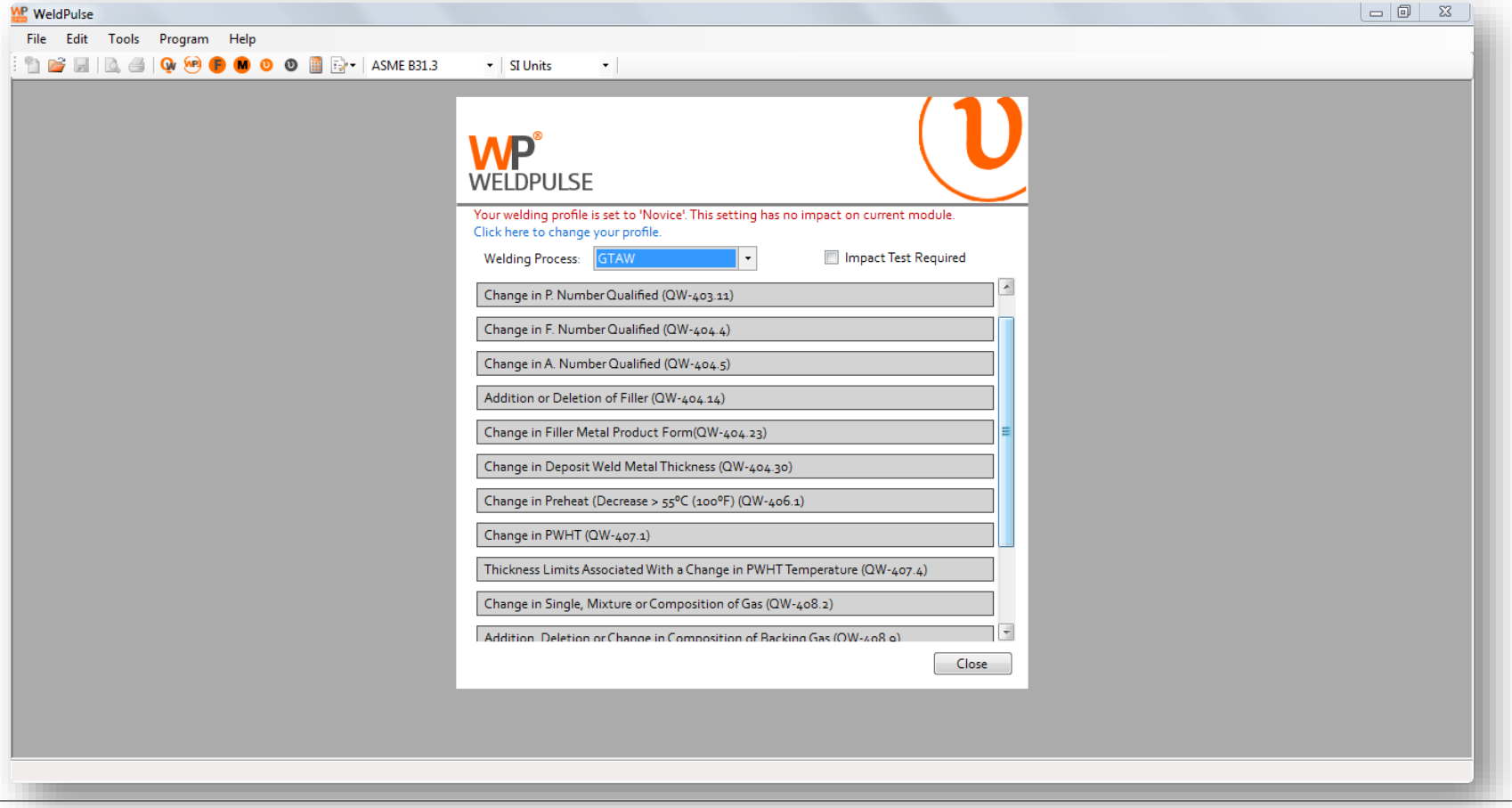
Procedure Variables

Check the procedure applicability



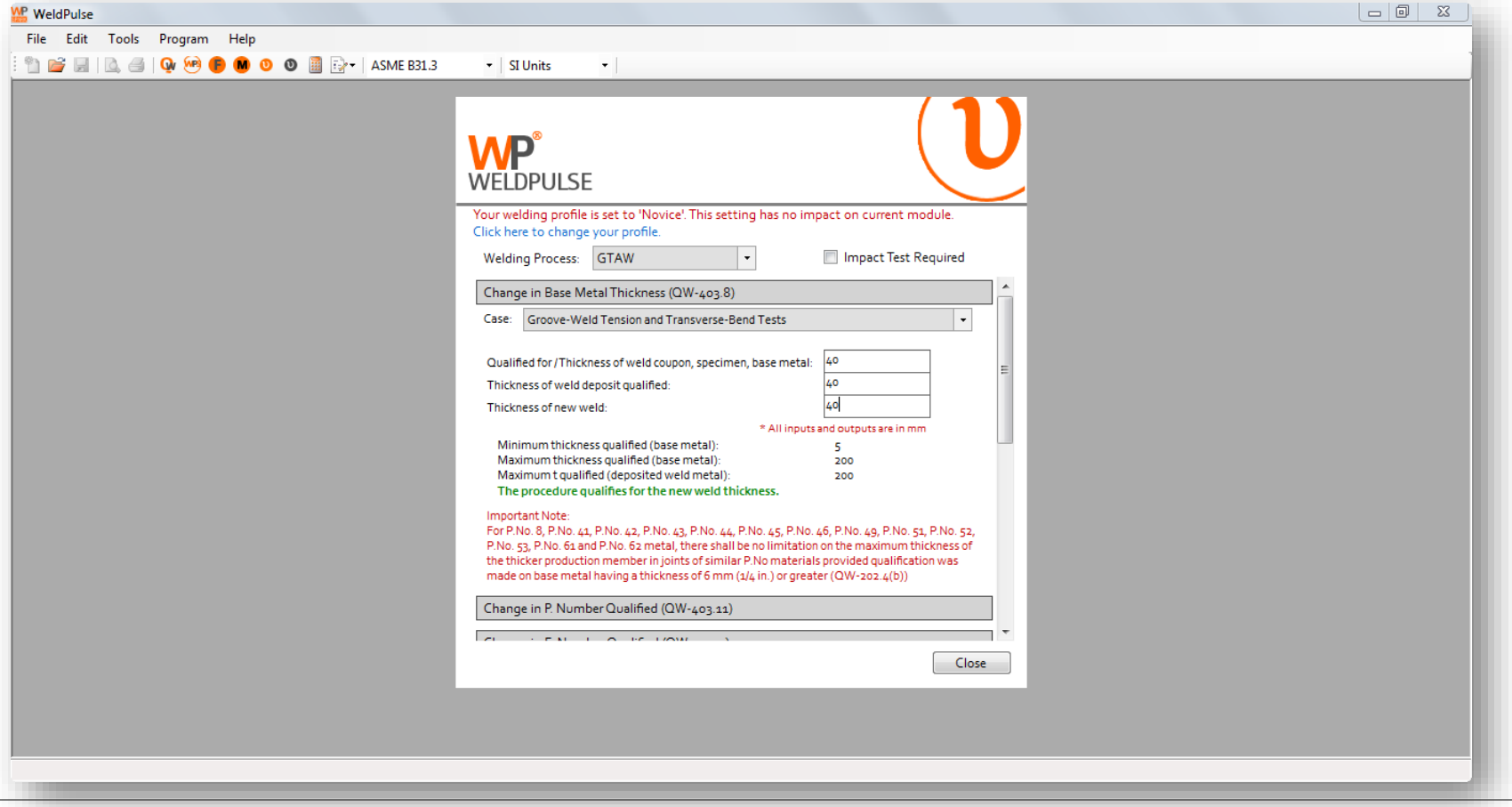
Procedure Variables

Select the welding process



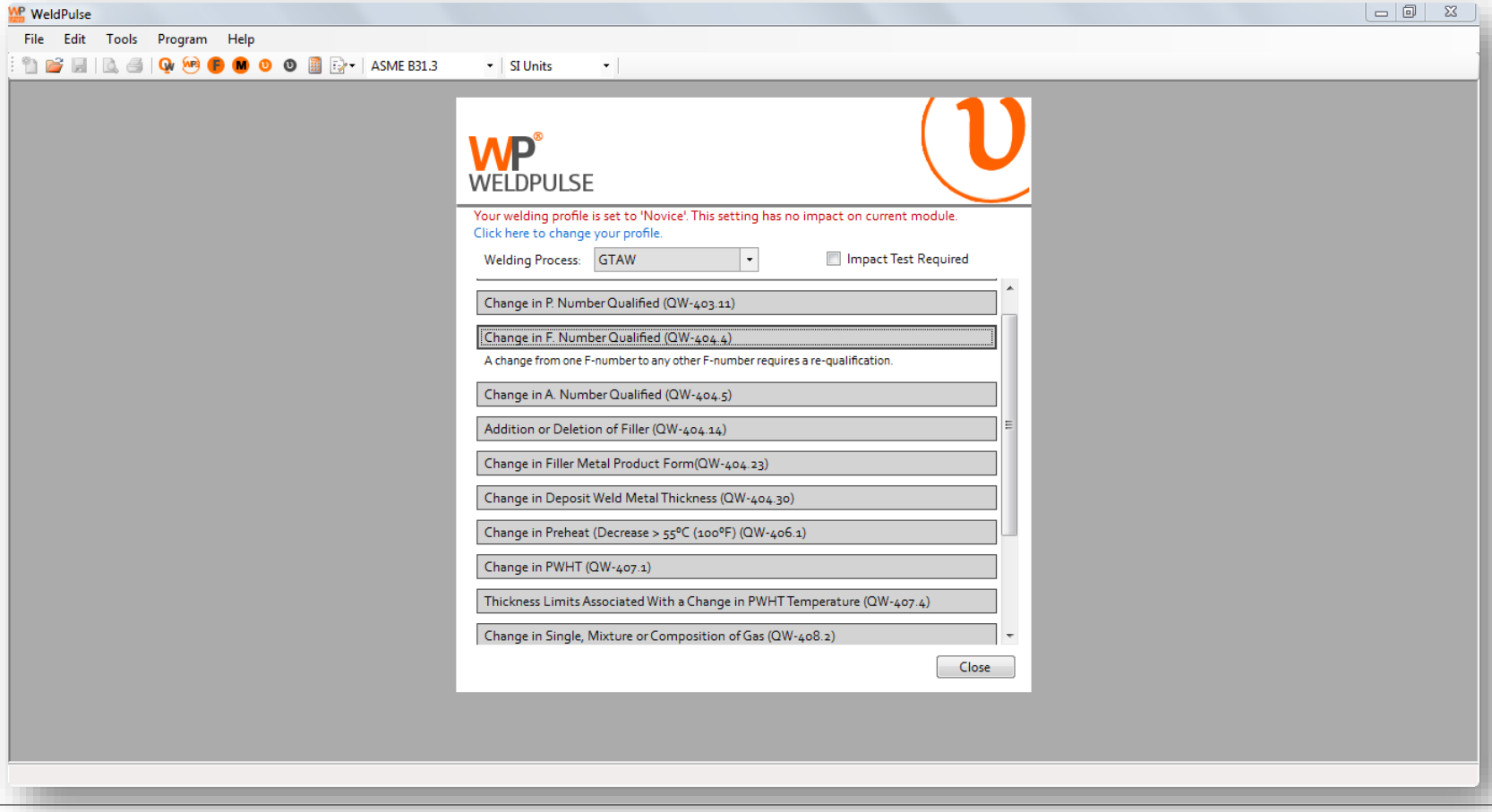
Procedure Variables

Check any variable to see if re-qualification is required



Procedure Variables

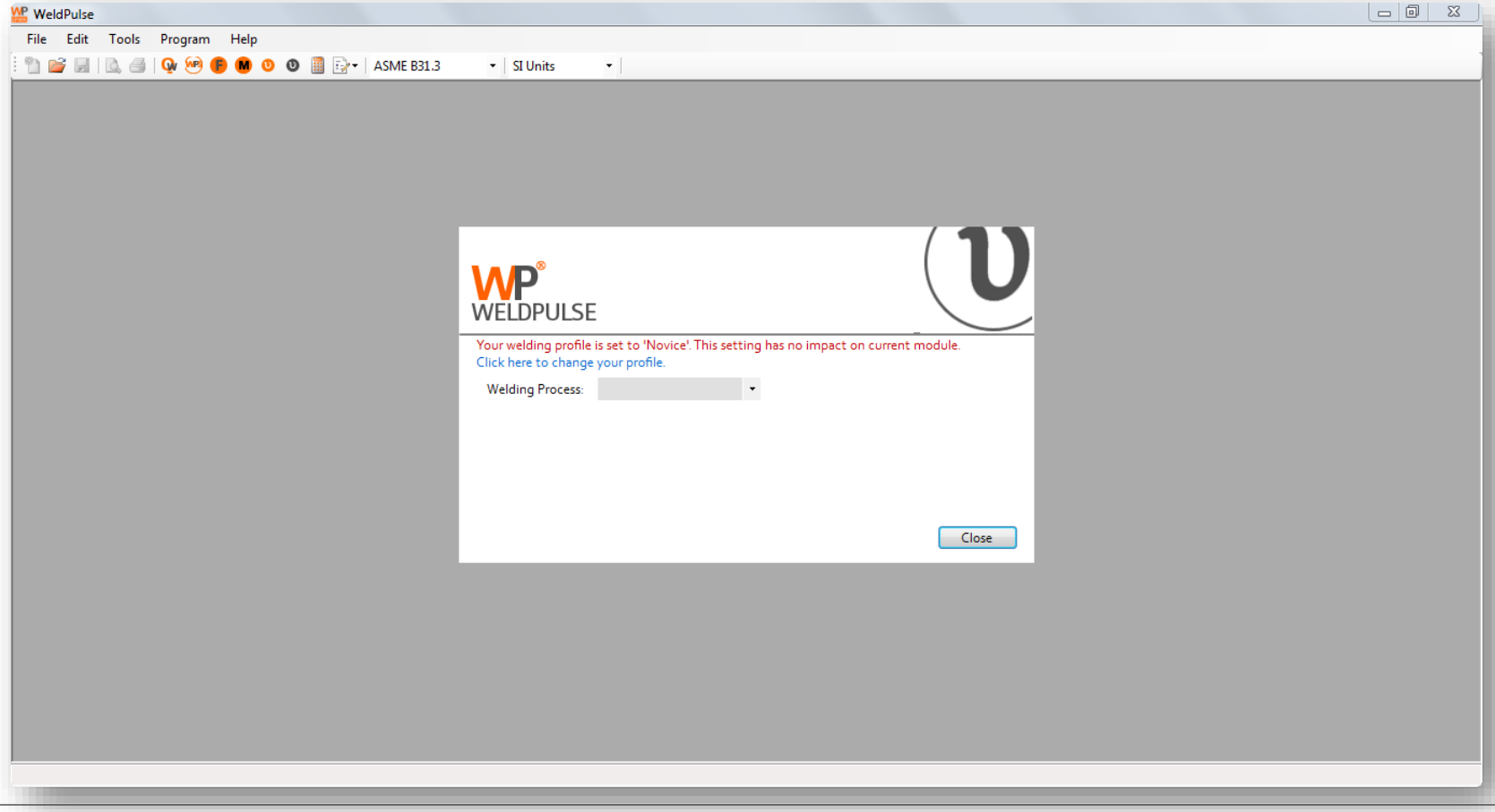
What happens if F-number is changed…?



Performance Variables

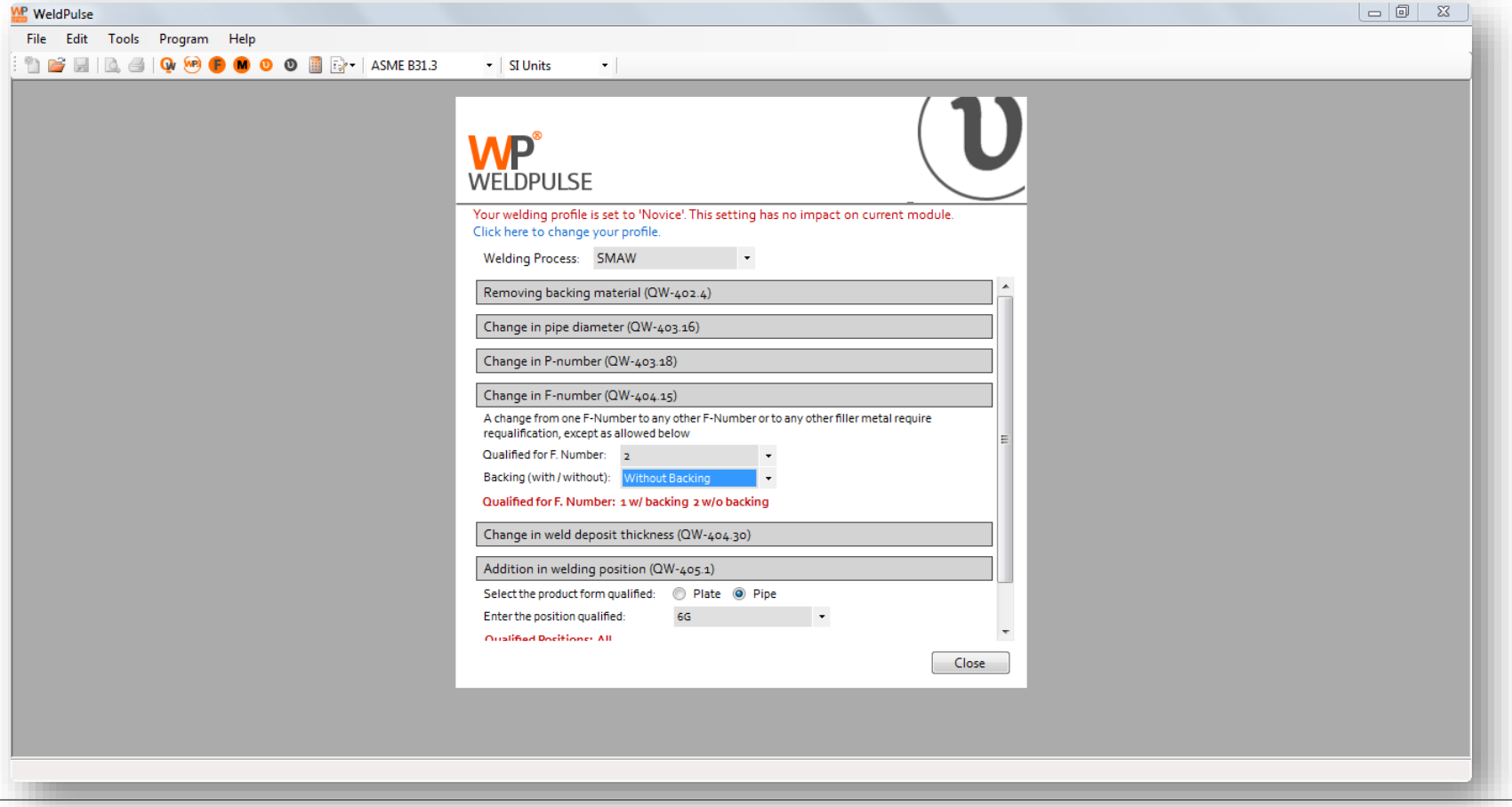
Performance Variables

Check if welder is qualified



Performance Variables

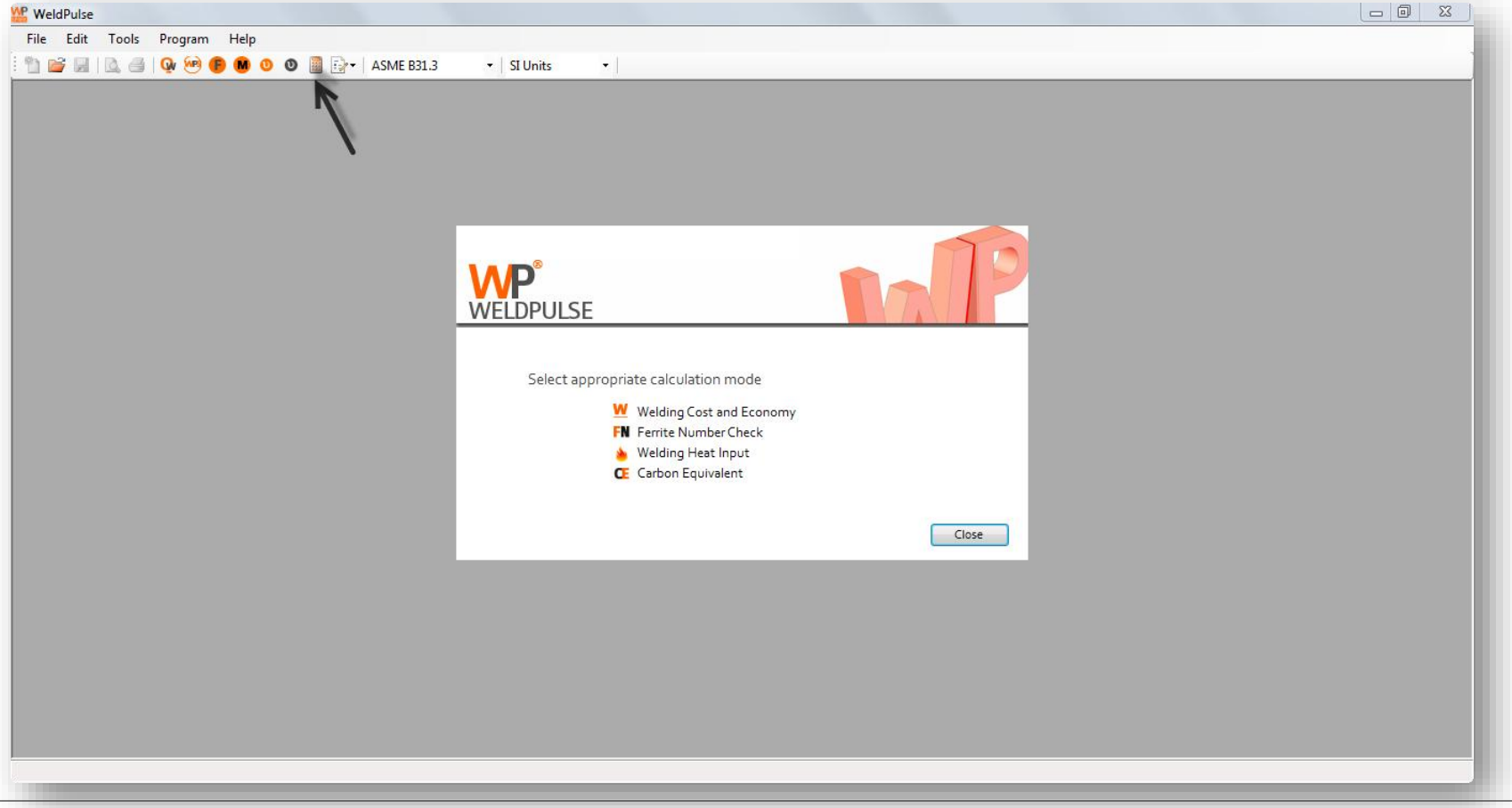
Select welding process and see the applicable variable for approval range



Welding Cost

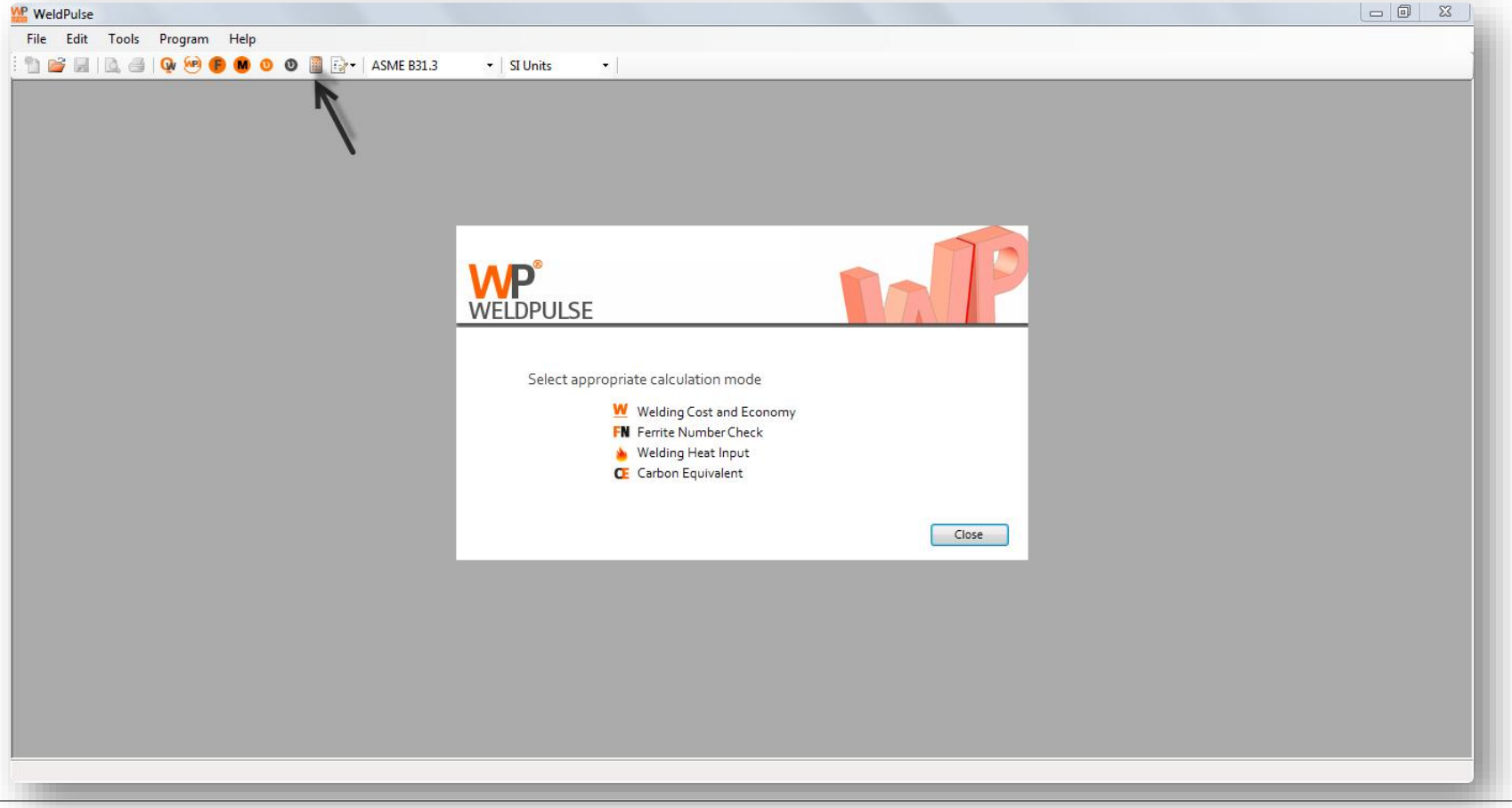
Welding Cost

WeldPulse® takes you stepwise in estimating welding cost for a welding job



Welding Cost

WeldPulse® takes you stepwise in estimating welding cost for a welding job



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WPQ

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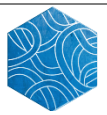
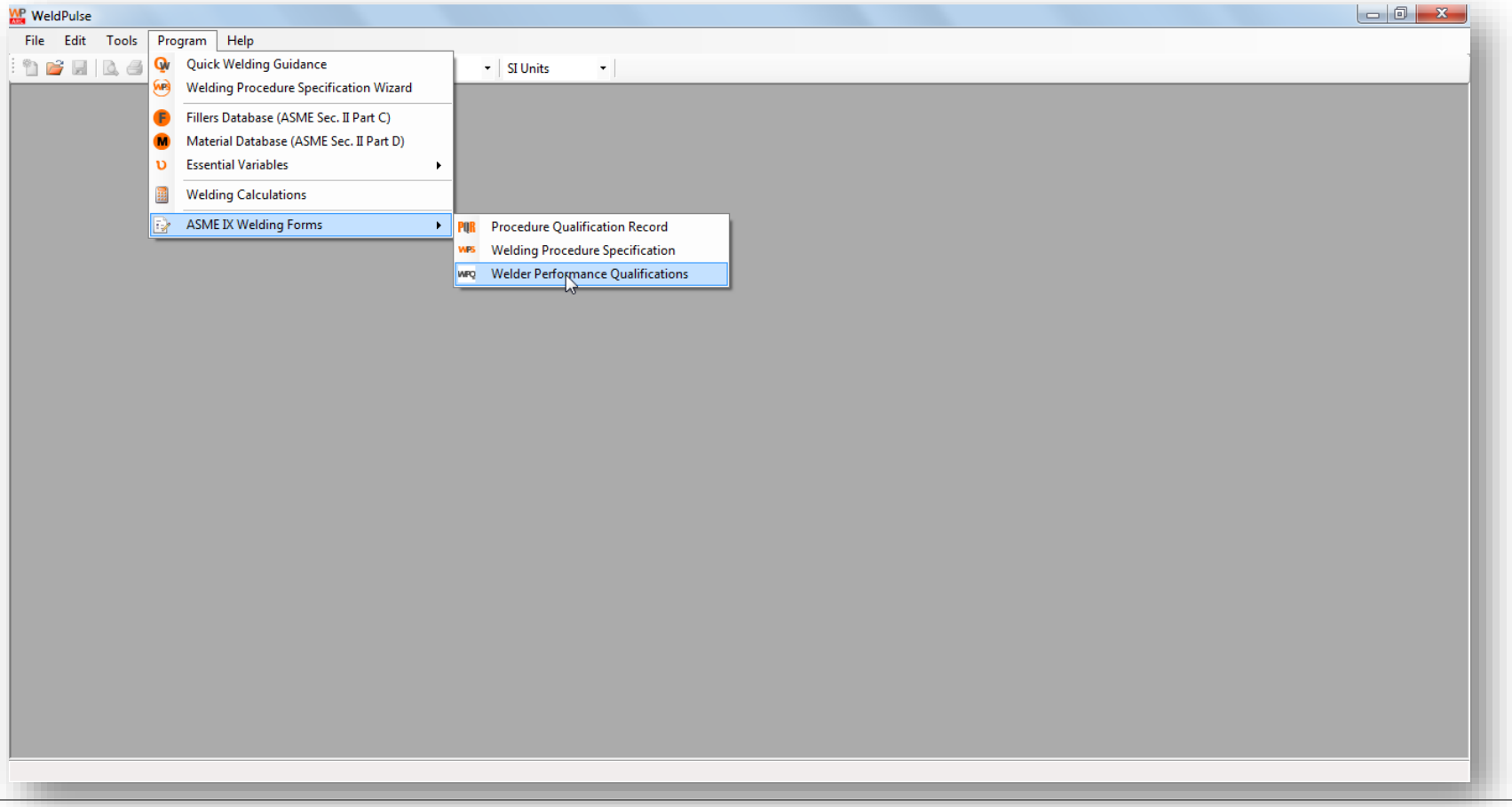


WPQ

Welder performance qualifications is an exclusive module in Arc Edition.

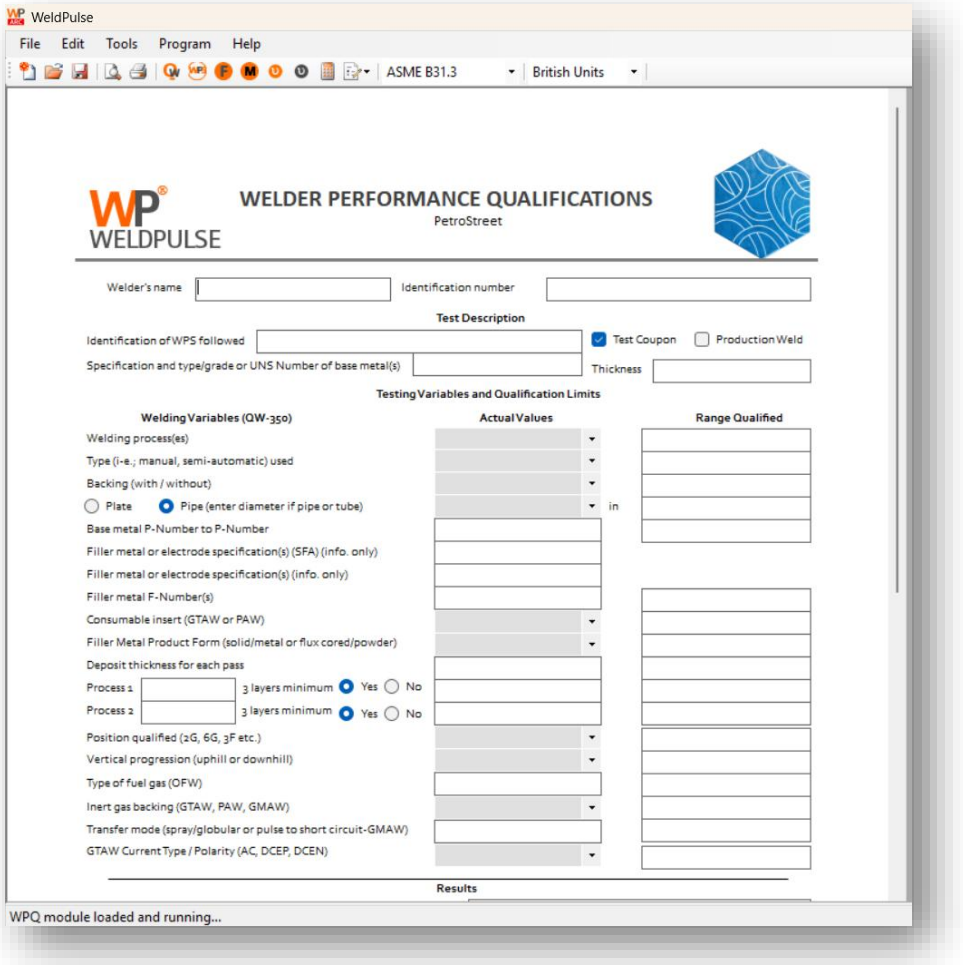


WPQ

Form formatting made easy as being the exact form as in ASME IX

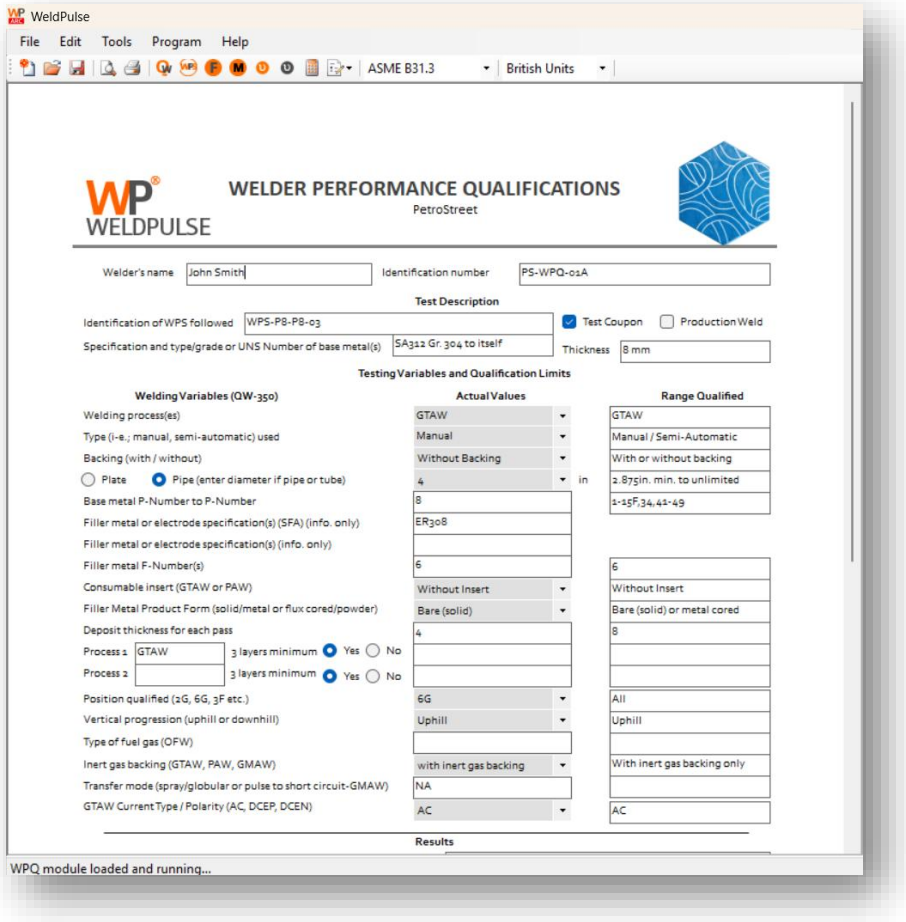
Automated approval range calculation as soon as input is given

Saving and printing options to save data in the software



WPQ

Example of a filled form is shown here:



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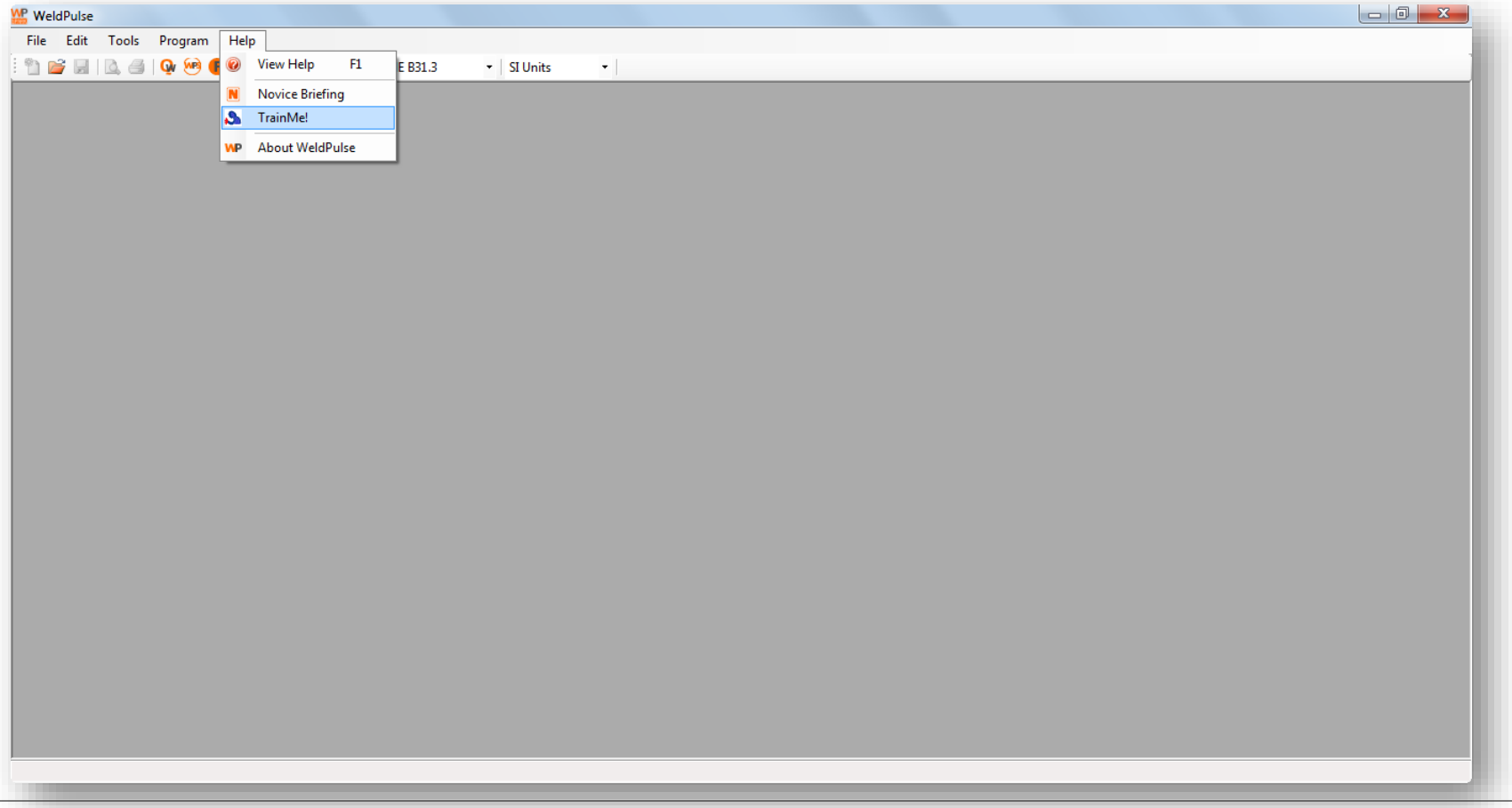

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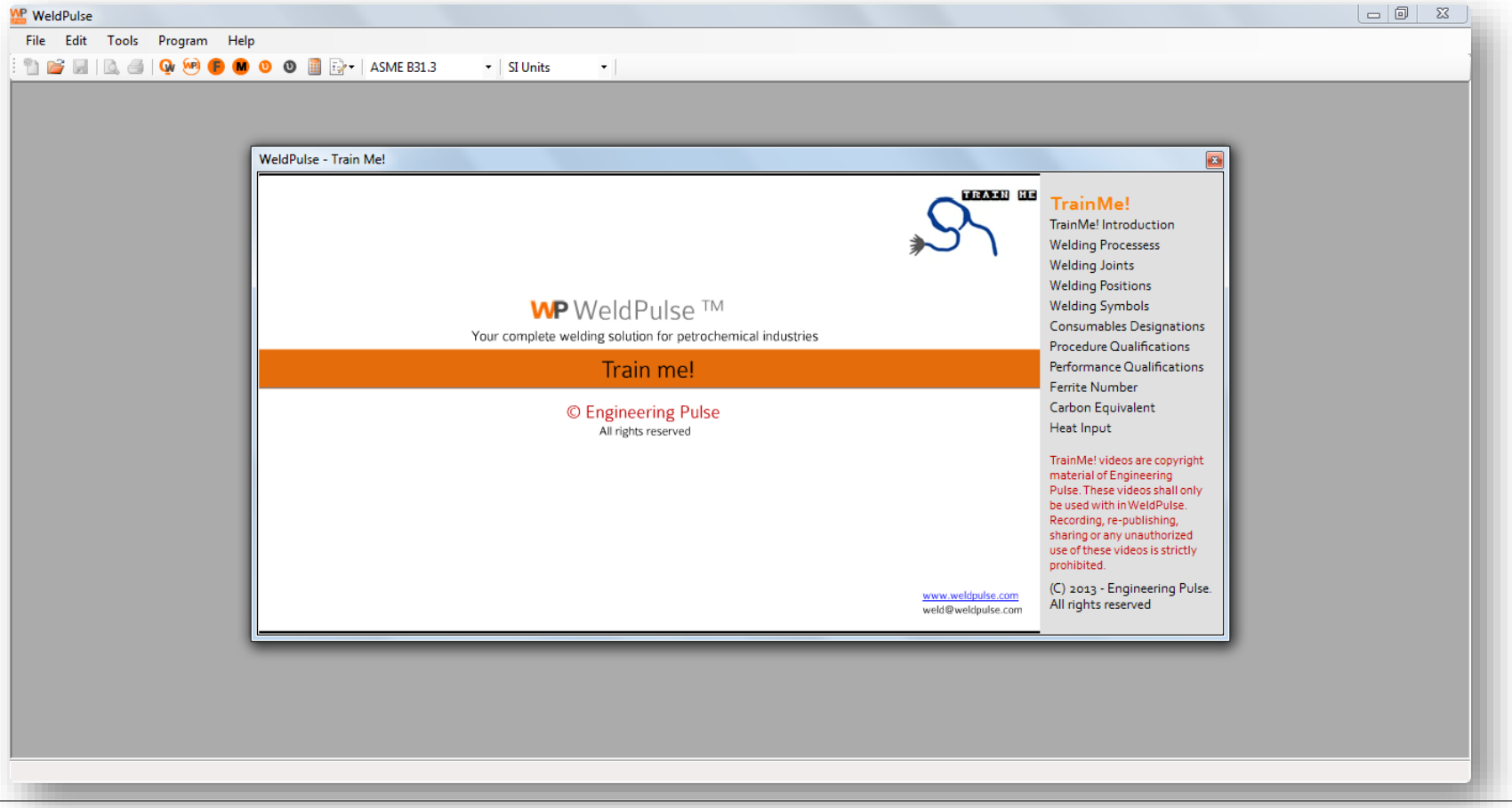

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