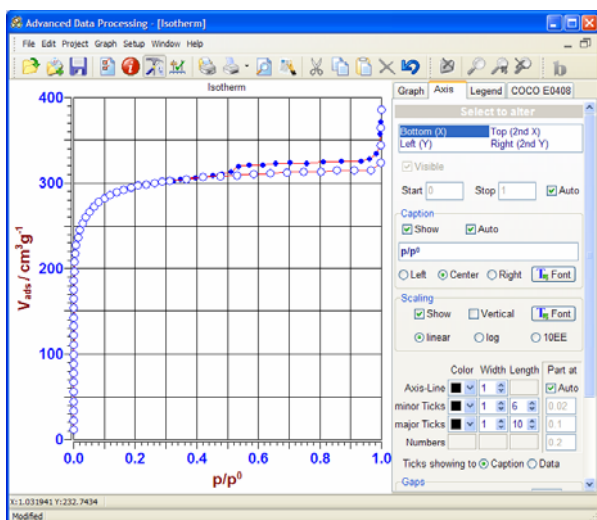


RE: NEW Advance Data Processing version 5 is now available from our web for our Sorptomatic users

Dear All,

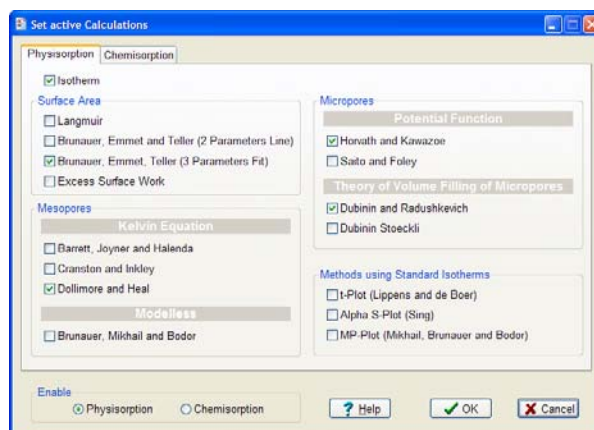
The ADP software has been completely re-designed and now is available to be downloaded from our web server. This advanced software for isotherm reprocessing has been improved in terms of layout, calculation models and reporting.

New Layout

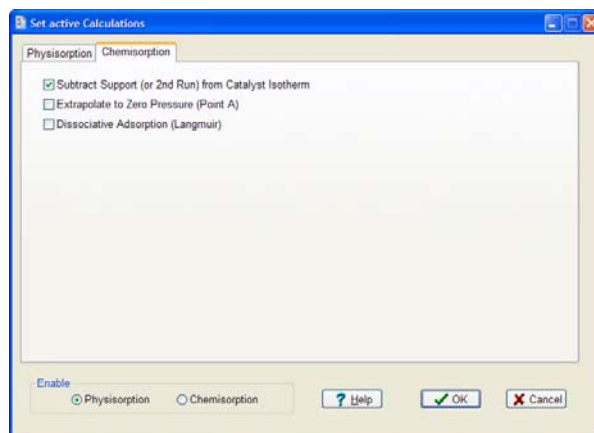


In ADP 5 now you can prepare all the graphs exactly in the format required for scientific publications. All the choices can be saved in the file itself and in the software layout so that they are automatically re-called when reprocessing other files. All the parts of a graph can be edited and a wide choice of log scale, fonts, characters and custom made titles can be chosen easily.

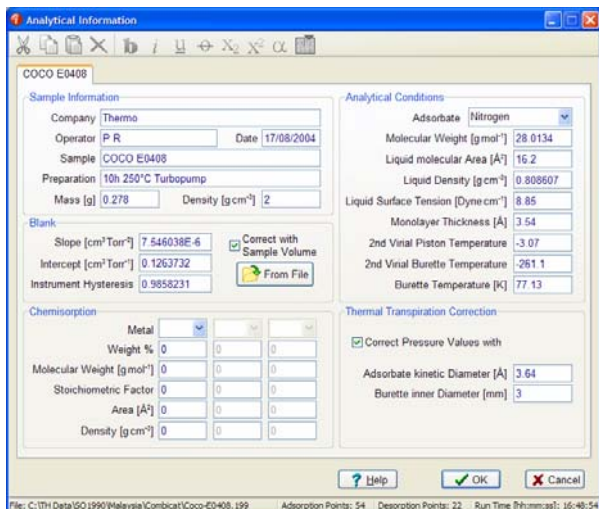
New extended calculation models for physisorption and chemisorption



An interesting new model has been introduced, the Excess Surface Work (ESW) model for surface area determination. In the extensive help of ADP you will find the summary explanation of this theory and the scientific references. Please refer to the table in the next page for a detailed list of calculations to be applied to physisorption and chemisorption isotherms.



Edit information on the raw data file



With ADP 5 is now possible to introduce directly in the raw data file the metallic composition of the catalyst when analyzed with chemisorption technique. This is comprehensive of the type of metal (up to three metals), percentage, transverse section and stoichiometric factor in relation to the gas in use. In addition, a new pressure raw data correction function has been introduced, the Thermal Transpiration Correction. This approach is required whenever reprocessing data relevant to ultra-microporous materials.

A comprehensive reporting formats

A completely new report generator is now built-in ADP 5. Users now have the opportunity to choose immediately among three type pf reporting:

- *Summary*

In Summary reports you will get the sample information and the small format graphs and basic results for each of the selected calculation models. The report can be then printed or saved in rtf format.

- *Standard*

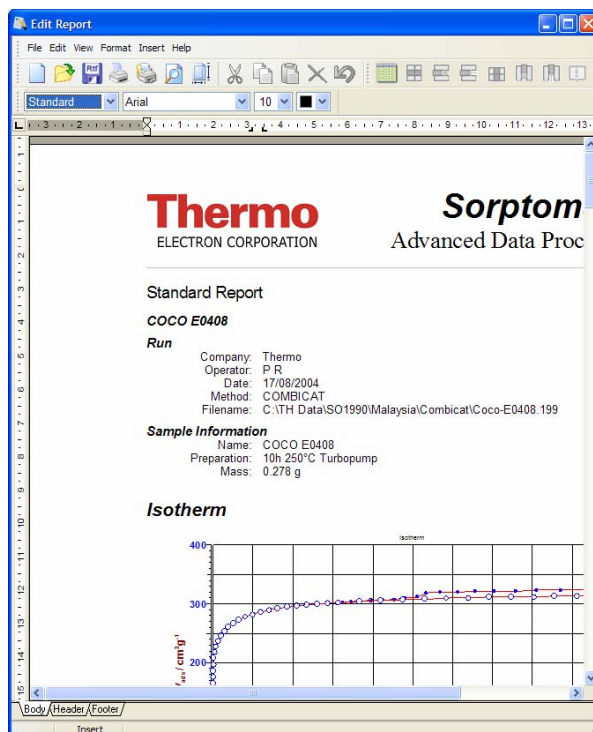
In the standard report you will get a full page for each calculation model selected in the file project.

- *Extended*

In the extended report all the information related to the analysis and the sample are printed along with graphs, calculations and results. All the raw data are printed in a tabular format.

- *Custom*

With the new ADP 5 is also possible to generate and save a customized reports by editing one of the above.



ADP 5	
Main functions	Advanced Data Processing software encloses the most up-to-date calculation models for surface area and pore size determination. It also permits the creation of customized graphics format to be enclosed directly in scientific publications
Specific surface area	<ol style="list-style-type: none"> 1. BET 2 parameters 2. BET full equation (3 parameters) with non linear regression function 3. Langmuir model 4. Dubinin-Radushkevich-Kaganer 5. Excess Surface Work (ESW) model 6. t-Plot 7. alpha-Plot 8. MP-Plot (Mikhail-Brunauer-Bodor)
Standard isotherms for t calculation	<ol style="list-style-type: none"> 1. Halsey 2. Fransil 3. Harkins-Jura 4. De Boer 5. Halenda 6. Lecloux 7. Hydroxylated silica 8. User defined standard
Mesopore size distribution	<ol style="list-style-type: none"> 1. Barrett-Joyner-Halenda 2. Dollimore-Heal 3. Cranston-Inkley 4. Modelless method
Micropore size distribution	<ol style="list-style-type: none"> 1. Horvath-Kawazoe 2. Saito-Foley 3. Dubinin-Stoekli

Available potential functions	<ol style="list-style-type: none"> 1. Nitrogen – Graphite (@ 77K) 2. Argon – Graphite (@ 77K, 87K) 3. Carbon dioxide – Graphite (194K, 273K, 298K) 4. Argon – Zeolite (@ 87K, 77K) 5. Nitrogen – Zeolite (@ 77K) 6. User defined
Chemisorption	<ol style="list-style-type: none"> 1. Subtraction procedure of isotherms for strong and weak chemisorption 2. Back extrapolation to zero pressure for metal surface and dispersion calculation 3. Langmuir model at variable exponent
Available graphs	All calculations are applicable in graphic format. All graphs can be edited in almost all their components and exported in high resolution graphic file
Available corrections databases	<ol style="list-style-type: none"> 1. Empty space determination using the same adsorbate gas enclosing the correction according to sample volume 2. Empty space determination using helium 3. Real gas correction using the Virial equation 4. Thermal Transpiration correction for different gases

The list of calculations and formulas available in ADP 5 is reported in the above tables. The software is available for downloading at our web server and it is completely FREE. Please report to the Marketing Department all bugs or errors you should eventually find using the software. Please inform at your earliest all your customers/users of Sorptomatic.