Relative Strength Filter
Global Summary

Group Selection
Priced as of October 10, 2019

Note: Group tickers incorporate hyperlinks to decile charts, and then a link to our Toolkit of the group members.

See back pages for user guide and disclaimer.
Sources for all charts: BMO Capital Markets
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### Sector Relative Strength Profiles*

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<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Energy</td>
<td>16% / 17% / 16%</td>
<td></td>
<td>3% / 2% / 4%</td>
</tr>
<tr>
<td>Materials</td>
<td>33% / 34% / 33%</td>
<td></td>
<td>2% / 2% / 5%</td>
</tr>
<tr>
<td>Industrials</td>
<td>36% / 40% / 37%</td>
<td></td>
<td>1% / 0% / 2%</td>
</tr>
<tr>
<td>CMR Disc</td>
<td>33% / 39% / 34%</td>
<td></td>
<td>4% / 3% / 6%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>41% / 47% / 41%</td>
<td></td>
<td>1% / 0% / 3%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>34% / 39% / 36%</td>
<td></td>
<td>-11% / -11% / -10%</td>
</tr>
<tr>
<td>Financials</td>
<td>34% / 40% / 35%</td>
<td></td>
<td>1% / -1% / 0%</td>
</tr>
<tr>
<td>Info Tech</td>
<td>47% / 52% / 50%</td>
<td></td>
<td>0% / -1% / 1%</td>
</tr>
<tr>
<td>Comm Srv</td>
<td>33% / 38% / 35%</td>
<td></td>
<td>4% / 1% / 5%</td>
</tr>
<tr>
<td>Utilities</td>
<td>52% / 61% / 56%</td>
<td></td>
<td>5% / 2% / 4%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>50% / 57% / 51%</td>
<td></td>
<td>11% / 9% / 12%</td>
</tr>
</tbody>
</table>

*Three terms define the relative performance Z-Score rating versus the markets (US = S&P 500; GBL = MSCI AC World; CDA = S&P/TSX Composite)

(a) % Outperforming - what percentage of sector members is outperforming the market,

(b) Reward/Risk - how consistent is the median relative strength performance of the sector membership ( / ranking),

(c) Trend Psn - what is the net percentage of the sector members which are breaking above/below relative strength channels.

The strength z-Score is weighted 60% towards the trend parameters (% outperforming and reward/risk ratios) and 40% towards the trend positions (reversals of trends). Gridlines are placed at 0.5 increments.

See Help Pages for further details.
Momentum

Strength

October 10, 2019

Mark Steele (416) 359-4641

Materials

FrstPrd
10 stocks; $20bn

PaperPkg
19 stocks; $94bn

Silver
9 stocks; $22bn

DvrsMng
47 stocks; $341bn

PrecMet
13 stocks; $52bn

PapProd
22 stocks; $109bn

47 stocks; $341bn

Gold
12 stocks; $284bn

DiversChm
20 stocks; $169bn

72 stocks; $284bn

IndusGas
7 stocks; $27bn

Alumin
40 stocks; $127bn

CstrMat
13 stocks; $237bn

Copper
14 stocks; $73bn

SpecChm
71 stocks; $633bn

Steel
60 stocks; $341bn

MtGlsCnt
15 stocks; $60bn

Fert&Ag
27 stocks; $12bn

ComdChm
49 stocks; $373bn

Szn
22 stocks; $140bn

Copper
Consumer Staples

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Consumer Staples

- HhldPrdct: 19 stocks; $666bn
- PersPrdct: 36 stocks; $515bn
- PkgFdMt: 122 stocks; $1438bn
- Dist&Vnt: 20 stocks; $596bn
- SprCntrs: 16 stocks; $609bn
- SoftDrinks: 19 stocks; $596bn
- Tobacco: 13 stocks; $436bn
- FdRetail: 13 stocks; $357bn
- Brewers: 14 stocks; $452bn
- FdDistri: 17 stocks; $65bn
- AgriProd: 28 stocks; $110bn

DrugRetail: 7 stocks; $71bn

PersPrdct

Momentum

Strength
October 10, 2019

Momentum

Utilities

Strength

WaterUtil
23 stocks; $100bn

GasUtil
36 stocks; $275bn

RenewElec
25 stocks; $143bn

IPPTrad
25 stocks; $128bn

MultiUtil
34 stocks; $539bn

ElecUtil
83 stocks; $1298bn

Utilities

BMO Capital Markets
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User Guide 1 - Definitions & Dataset

Group Strength
Our Global Group analysis is based on bottom-up equity relative strength analysis as opposed to industry group (index) relative strength analysis.

Strength Decile Defined By
1. What percentage of a group’s members are outperforming
2. How consistent that outperformance is
3. How the members are positioned (above/below) vs. their trend channels.

Momentum Decile
Rate of change of strength (change in 5-day moving average)

The Underlying Equity Relative Strength Analysis
Each day, for every equity we cover, our relative strength system assesses the best fit trend from a spectrum which covers a minimum trend duration of six months, and a maximum of 4-years. The "best fit" is the trend which maximizes duration, and minimizes deviation from the trend. Our process is flexible, thorough, and because it is run daily, timely.

The Dataset:
- Over 5,700 securities.
- Groups have a:
  ...Median depth of 28
  ...Average depth of 36

Heat Map Colour and Symbol Guide
Strength is highlighted by the background of the group title
- Bright green = best (1st decile) transitions towards...
- Bright red = worst (10th decile)
Momentum is highlighted in the border of the group title
- Colour map for momentum is the same as strength
Symbols to the right of the group ticker show where a group moved from in the previous session. Below the group symbol we highlight the number and total market capitalization of the members in a group. Clicking on the group, which brings up the chart via a hyperlink, will help to clarify the moves.
User Guide 2 - Momentum

Our Goals:
- To buy outperforming stocks in favoured groups
- To avoid underperforming stocks in unfavoured groups
- To be alerted of and act on the changes

#1 Rule of Momentum: You can use it only if it exists

- In stable/trending markets, one can buy stocks with high strength and momentum and hold them as long as momentum does not turn negative (trend following).

- In very rotational markets (e.g., where credit, currency, commodity conditions are choppy/changing):
  - Buying high strength and high momentum may be dangerous (buying yesterday's winners).
  - One is better off buying stocks with moderate strength and high momentum (bottom fishing).

![Diagram showing stock market strategies: Buy/Hold, Trim/Sell, Bottom Fishing, Sell/Short.]

- In favour stocks with positive momentum
- Out of favour but becoming less so
- Out of favour stocks with negative momentum
Buy
- Groups with high strength and high positive momentum (top left) - “In Favour”
- Groups with moderate strength and high positive momentum - “Transitioning to Positive”
- Groups with mediocre strength and high positive momentum - “Gaining Favour”

Buy/Hold
- Groups with high strength and neutral momentum (middle left) - “Maintaining Favour”

Sell
- Groups with low strength and high negative momentum (bottom right) - “Out of Favour”
- Groups with moderately negative strength and high negative momentum - “Transitioning to Negative”
- Groups with mediocre strength and high negative momentum - “Losing Favour”
User Guide 4 - Hyperlinks To Decile Charts & Stock Selection

- Each group is hyperlinked to a chart that shows the relative strength decile as a function of time, and the moving average (momentum).

- Each chart is hyperlinked to the group membership, in our RS Filter Toolkit.
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<th>BMOCM US Universe*</th>
<th>BMOCM US IB Clients**</th>
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<th>BMOCM Universe****</th>
<th>BMOCM IB Clients*****</th>
<th>StarMine Universe</th>
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<tr>
<td>Buy</td>
<td>Outperform</td>
<td>43.2%</td>
<td>22.8%</td>
<td>57.4%</td>
<td>44.1%</td>
<td>57.0%</td>
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<tr>
<td>Hold</td>
<td>Market Perform</td>
<td>53.2%</td>
<td>13.1%</td>
<td>40.6%</td>
<td>52.6%</td>
<td>41.1%</td>
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<tr>
<td>Sell</td>
<td>Underperform</td>
<td>3.7%</td>
<td>9.5%</td>
<td>2.0%</td>
<td>3.2%</td>
<td>1.6%</td>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.
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